FIG. 1A

1 CACCCTATCC TACACTACTA GGAACTTGCA CAGTCCGCCT CGGGCAGCCC AAAGCTCCTC 60	
61 TGCCCACCCT GGCTCCCAAA ACCACAAAAGACC AGAAAAGCAC TCTCCACCCA 120	
121 GCAGCCAAAC GCCTCCTTCT TGACGCCAGC CCCCACCCTC TGTCTGCTCG AGCCCAGGAA 180	
181 AGGCCTGAAG GAACAGGCCG GGGAAGGAGC CCTCCCTCTC TCCCTTGTCC CTCCATCCAC 240	
241 CCAGCGCCGG CATCTGGAGA CCCTATGGCC CGGGCTCACT GGGGCTGCTG CCCCTGGCTG 300 M A R A H W G C C P W L 12	
301 GTCCTCCTCT GTGCTTGTGC CTGGGGCCAC ACAAAGCCAC TGGACCTTGG AGGGCAGGAT 360 13 V L L C A C A W G H T K P L D L G G Q D 32	
361 GTGAGAAATT GTTCCACCAA CCCCCCTTAC CTTCCAGTTA CTGTGGTCAA TACCACAATG 420 33 V R N C S T N P P Y L P V T V V N T T M 52	
421 TCACTCACAG CCCTCCGCCA GCAGATGCAG ACCCAGAATC TCTCAGCCTA CATCATCCCA 480 53 S L T A L R Q Q M Q T Q N L S A Y I I P 72	1
481 GGCACAGATG CTCACATGAA CGAGTACATC GGCCAACATG ACGAGAGGCG TGCGTGGATT 540 73 G T D A H M N E Y I G Q H D E R R A W I 92)
541 ACAGGCTTTA CAGGGTCTGC AGGAACTGCA GTGGTGACTA TGAAGAAAGC AGCTGTCTGG 600 93 T G F T G S A G T A V V T M K K A A V W 113) 2
601 ACCGACAGTC GCTACTGGAC TCAGGCTGAG CGGCAAATGG ACTGTAATTG GGAGCTCCAT 66 113 T D S R Y W T Q A E R Q M D C N W E L H 13	0 2
661 AAGGAAGTTG GCACCACTCC TATTGTCACC TGGCTCCTCA CCGAGATTCC CGCTGGAGGG 72 133 K E V G T T P I V T W L L T E I P A G G 15	0
721 CGTGTGGGTT TTGACCCCTT CCTCTTGTCC ATTGACACCT GGGAGAGTTA TGATCTGGCC 78 153 R V G F D P F L L S I D T W E S Y D L A 17	0
781 CTCCAAGGCT CTAACAGACA GCTGGTGTCC ATCACAACCA ATCTTGTGGA CCTGGTATGG 84	10 €2
841 GGATCAGAGA GGCCACCGGT TCCAAATCAA CCCATTTATG CCCTGCAGGA GGCATTCACA 90193 G S E R P P V P N Q P I Y A L Q E A F T 2	00 12
901 GGGAGCACTT GGCAGGAGAA AGTATCTGGC GTCCGAAGCC AGATGCAGAA GCATCAAAAG 9	60 32

FIG. 1B

961	GTC	CCC	ACT	rg	CCGT	CCT:	rct	GTC	GGC(GCTT	GAC	GA(SAC	GG	CCTG	GCT	CTT	CAA	CCT	rcga	1020
233	V	P	T	A	V	L	L	S	A	L	E	E	T	A	W	L	F	N	L	R	252
																GCT	CAC	AGA	CTC	rtct	1080
253	A	S	D	I	P	Y	N	P	F	F	Y	S	Y	T	L	L	T	D	S	S	272
1081	ATT	rago	TTC	GT	TTGC	AAA	CAA	GAG	TCG	CTTT	AG	CTC	CGA	AA	CCTT	GAG	CTA	TCT	GAA	CTCC	1140
273																s			N		292
																					1200
293	s	С	Т	G	P	M	С	V	Q	I	E	D	Y	S	Q	V	R	D	S	I	312
																		CAT	GTA	TGGG	1260
313	Q	A	Y	S	L	G	D	V	R	I	W	I	G	Т	S	Y	T	M	Y	G	332
1261	ATO	CTA'	rga.	AA	TGAT	ACC	AAG	GGA	GAA	ACTC	GT	GAC	AGA	CA	ССТА	CTC	ccc	AGT	GAT	GATG	1320
333																					352
1321	AC	CAA	GGC	AG	TGAZ	GAA	CAG	CAA	.GGA	.GCAG	GC	CCT	CCI	CA	AGGC	CAG	CCA	CGT	GCG	GGAC	1380
															A						372
1381	GC'	TGT	GGC	TG	TGAT	rccg	GTA	CTI	GGI	CTGG	CT	GGA	GAA	AGA	ACGI	GCC	CAA	AGG	CAC	AGTG	1440
373	A	v	A	V	I	R	Y	L	v	W	L	E	K	N	V	P	ĸ	G	T	V	392
1441	GA	TGA	GTT	TT	CGG	GGC	AGA	GAT	CGI	GGAC	AA	GTI	'CCG	BAG	GAGA	LAGA	ACA	GTT	CTC	CTCC	1500
					G										E				S		412
																			CTA	CAGC	1560
413	G	P	S	F	E	T	I	S	A	s	G	L	N	A	Α	L	A	H	Y	S	432
1561	CC	GAC	CAA	LGG	AGC!	rga <i>i</i>	ACCG	CAZ	\GC1	GTCC	TC	:AGA	TG	AGA	TGT	ACCI	GCT	GGZ	ACTO	TGGG	1620
433	P	T	K	E	L	N	R	K	L	s	s	D	E	M	Y	L	L	D	s	G	452
1621	GG	GC A	GT.	· ACT	GGG	ACGO	GAC	CAC	AGZ	ACATO	. AC	CAC	SAAC	CAG	TCC	ACTO	GGG	CAC	ccc	CTCT	1680
															Н						
1681	GC	СТТ	TC.	AGA	AGG	AGGG	CATA	TAC	ccc	STGTG	CI	'GA'	rag(GAA	ATA	rtg <i>i</i>	ACCT	GT	CAC	GCTC	1740
473										V							L			L	
		ىرىت	ייוירי	:CG	ርጥር	СТР	ጋልጥር	AC.	3GC4	GAATO	; G1	rggi	AGG	CCT	TTG	ccc	GCAG	AG	CCT	Deten	1800
															A					W	
1001		m	ירוחי	2000	max	y mm	, , , ,	י שיבי	አጥር	CCAC?		300:	ACC:	CC2	ጥጥርታ	പ്രവ	עריים	י ככי	ጥርጥ	ጉጥርንጥር	1860
TROT	<i>ا</i> نف .	2.T.G(. 1 G(J I C	TCA	41.TV		TU		GGAC:					LILG						532

FIG. 1C

1861	CAT	GAC	TGC	3C	CAGI	GGG.	ATT	CCA	GTC	CAAC	AAC	CATO	CGC:	ΓA	TGGC	CAA	GGG	CAT	GTT	CACT	1920
533	Н	E	W	P	V	G	F	Q	s	N	N	I	A	M	A	K	G	М	F	т .	552
1921 553				AC P		TTA Y	CTA Y	TAA K	GGA D	TGGA G	GA.	ATT' F	rgg(GA I	TCCG R	TCT L	CGA E	AGA' D	TGT(V	GGCT A	1980 572
1981 573				AG E		CAAA K		CAA K	GTA Y	CCCA P	GG G	GGA E	GCT. L	AC P	CTG# D	L L	TGT V	GGT V	ATC S	ATTT F	2040 592
20 41 593						GGA? N		CAT	CGA D	TGTC V	AG S	CCT L	GCT L	GT S	CTC(CCGA E	GCA H	TCT L	CCA Q	GTAC Y	2100 612
2101 613						ACCI Q				EGGAG E	AA K	GGT V	G G	TC P	CAG.	AGCT L	GCA Q	GAG R	GCG R	CCAG Q	2160 632
2161 633							agtg W	GC1	TC? Q	AACAG Q	G CA	ACAC T	AGA E	AGC P	CCC	TGG(A	CCGC A	CAC R	eggc A	CCCA P	2220 652
2221 653						GGG I A			rgt' L		G G1 V	rct(s	CCA(T	CCC L	TTG A	CCA!	rcci L	TG(GCT(W	GGAGT S	2280 672
	. G7		AGA(GGC	TCC	CAGA	CTCI	CC'	TGT	TAAC	C C'	TCC	ATC'	TAG	ATG	GGG	GGCI	CC	CTT	GCTTA	2340 673
234	L G	CTC	CCC'	TCA	CC	CTGC	ACTO	S AA	CAT	ACCC	C A	AGA	GCC	CCI	GC1	egc.	CCAT	TG	CCT.	AGAA	2400
240	1 C	CTT	TGC	ITA	CA'	TCCI	CCT	r ct	CCA	AGAC	СТ	ATG	GAG	AAC	G GTC	CCA	.GGC(C CC	AGG	AAACI	A 2460
246	1 C	AGG	GCT	TCI	TG	GCCC	CAG	A TG	GCA	CCTC	c c	TGC	ACC	ccc	G GG(GTTG	TAT	A CC	:ACA	CCCT	G 2520
252	1 G	GCC	CCT	'AA'	r cc	CAGO	SCCC	C GA	raa.	ragga	.A. A	rec c	AGC	TAC	G TC'	rctt	CTC	r TC	TGT	'GATC'	T 2580
258	1 C	AGT	'AGG	CC.	F AA	CCT	AATA	C CI)AA1	CACAG	GA C	CTGC	TAC	AG	C TG	CTCC	CCT	c c	CGCC	AAAC	A 2640
264	1 A	AGC	ccc	CAA	G AA	AAC	aatg	c c	CTI	ACCAC	cc c	CAAC	GG7	rgc	C AT	GGT	CCG	G G	LAAA	CCCA	A 2700
27.0	1 (CTC	TC!	ACC	G CC	TGT	TGGG	BC G	AAT	CCAG	AA (CTG	rtco	ccc	c cc	ACC	AGGG	CT	LAA 1	AAATC	G 2760
276	51 (ccc	CCA	CTT	T T	DAAT	CATO	G T	CCA	TTAA	cc i	ACC'	rgg:	rgg	G CA	TAG	CCAG	SA G	CTG!	rtcga	A 2820
282	21 (CCC	AGC(CAG	G G	ATGA	AAA	AT C	AAC	cccc	GA (CAT	GGA.	ACC	C AT	GAT	TCCI	A A	ACC(cecec	T 2880
20	01	7 CC	ውጥር	רמיז	'G C	ר א א כי	ነል ልጥ:	'A G	CAG	AGGG	AG	TTA	AGC	CAI	A GO	TAAS	TTGO	ECT	GTG	GAGT	AA 2940

FIG. 1D

2941 GAGGGAATGC GGTGAGGCAG TGTGGAATAT GACCCTACCA GAGGTTGGAG AACAAACTTG 3000
3001 GGCAGCCGGA ACCCGTCACT ATTTTAGATT CCTGGCATTC GAGGAGCCCT TTGAACTTTC 3060
3061 CAAAGTGCAG CCACAGCTAC AATGCTGTTA AATCCTCCCA CATTTCTTGG ATGCCCCTTC 3120
3121 ACCTTGTGTG GACAGTGTCT GGTTTCCCCA TTTTACAGAC AGGAAAACTG AGCTTCAGAC 3180
3181 AGGGGGTGGG CTTTGCCTAA GGACACACAA ATTTGGTTGG GAGTTGATGG GGCCAGATGA 3240
3241 GCCAGCATTC CAGCTGTTTC ACCCTTCAGC AACATGCAGA GTCCCTGAGC CCACCTCCCA 3300
3301 GCCCTCTCCT CATTCTCTGA ACCCACTGTG GTGAGAAGAA TTTGCTCCGG CCAAATTGGC 3360
3361 CGTTAGCCAC CTGGGTCCAC ATCCTGCTAA GACGTTTAAA ACAGCCTAAC AAAGACACTT 3420
3421 GCCTGTGG 3428

FIG. 2A

1	CAC	CCT	ATC	C 1	raca	CTA	CTA	GGA	ACT:	rgca	CAG	TCC	GCC	T (CGGGG	CAGO	ccc	AAA	CTC	CTC	60
61	TGC	CCA	.ccc	CT (GCT	ccc	AAA	ACC	CTC	CAAA	ACA	AAA	GAC	C	AGAA	AAG(CAC	TCTC	CAC	CCA	120
121	GCA	.GCC	'AA'	AC (GCCT	CCT	TCT	TGA	CGC	CAGC	ccc	CAC	CCT	C	TGTC'	rgc'	rcg	AGC	CCAC	GAA	180
181	AGG	CCI	'GA	AG	GAAC	AGG	ECG	GGG	AAG	GAGC	CCI	rcco	CTCI	C	TCCC'	TTG'	rcc	CTC	CATO	CAC	240
241 1	CC	'GC(SCC	GG	CATO	TGG	BAGA	ccc		GGCC A					GGGG G				CTG(W	GCTG L	300 12
	GT(ETGC A		GGG G	CCAC H			GCC <i>I</i> P						GCA(Q		360 32
	GT(CAC T		CCC	CCC P	TTAC Y	CT ^c	TCC: P	AGT:	T	CTGT V	GGT V	CAA N	TAC T	CAC. T	aatg M	420 52
	TC:			AG A						PGCAG Q			GAA' N				CTA Y			CCCA P	480 72
	GG G				CTC.	ACA' M	TGAA N	CG/	AGT? Y	ACATC I	G G	CCA Q	ACA H	TG D	ACG#	AGAC R	GCG R	TGC A	:GTG W	GATT I	540 92
	AC T						CTGC A	AGC G	GAAC T	CTGCA A	GI V	GGT V	GAC T	TA M	TGAZ K	AGA. K	AAGC A	AGC A	TGT V	CTGG W	600 112
601	AC	CGA D	CAC S	STC R	GCT	ACT W	GGA(TC: Q	AGG A	CTGAG	CG R	GCA Q	AAT M	GG D	ACTO	GTAI N	ATTO W	GG# E	AGCI L	CCAT H	660 132
	L AA B K						CTC(TCACO	C TC W			CA T			TTCC P	C CGC	CTGC G	G G	720 152
72: 15:	L CG	TGI V	997 G	GTT F	TTC	EACC	CCT	T CC L	TCT L	TGTC(C A? I	TTG <i>I</i> D	ACAC T	CT W	GGG.	AGA S	GTT! Y	A TG	ATCI L	rggcc A	: 780 172
78: 17:	1 C1	rcci Q	AAG G	GCT S	CT?	AAC!	AGAC.	A GC	TGG V	TGTC	C A' I	CAC T	CAAC T	CCA N	ATC	TTG V	TGG: D	A CC'	rgg: V	ratgo W	840 192
84 19	1 G(3 G	GAT(S	CAG E	AGA	GGC	CCA(CCGG P V	T TC	CAA	ATCA	A C	CCA' I	TTT2 Y	ATC	CCC	TGC	AGG.	A GG A	CAT'	TCACI T	A 900 212
90	1 G	GGA	GCA	CTI	GG	CAG	GAGA F K	DA A.	TAT	CTGG	C G	TCC	GAA(GC(CAGA	TGC	AGA K	A GC H	ATC.	AAAA(K	3 960 232

FIG. 2B

961 233													GAC(GCT(L			CTI L		1020 252
1021 253																			CTCI S		1080 272
1081 273													CGA E			GAG S			GAAC N		1140 292
1141 293	agt S	rtg(C	CAC T	AG G	GCCC P	CAI M	GTG C	TGT V	GCA. Q	AATC I	GA E	GGA D	TTA Y	CA S	gcca Q	AGT" V	rcg R		CAG(S		1200 312
1201 313																CTA' Y			GTA'		1260 332
1261 333						P P	AAG R	GGA E	GAA K	ACTC L	GT V	GAC T	AGA D	CA T	CCTA Y	CTC S	CCC P	agt V			1320 352
1321 353	AC T	CAA K	GGC A	AG V	TGA: K	agai N	ACAG S	CAA K	.GGA E	GCAG Q	GC A	CCI L	CCI L	CA K	AGGC A	CAG S	CCA H	CGT V			1380 372
1381 373	GC A	TGT V	GGC A	TG V	TGA'	TCC R	GGTA Y	CTI L	GGI V	CTGG W	C1	GG# E	AGA.F K	AGA N	ACGT V	rgcc P		AGG G		AGTG V	1440 392
1441 393	GA D	TGA E	GTI F	TT S	CGG G	GGG A	CAGA E	GAT I	rcgi V	GGAC D	A# K	AGTT F	rcco R	GAG G	GAG/ E	AAGA E	ACA Q	GTI F	CTC S	ctcc s	1500 412
1501 413							CCAT I		CTGC A		G G	ETT: L	rgaz N	ATG A	CTG(L CCI	YGGC A	CC# H	CTA Y	CAGC S	1560 432
	. CC						ACCG R			rgtcc s	TO S	CAG: D	ATG: E	AGA M	TGT:	ACCI L	GCT L	GG <i>I</i> D	CTC S	TGGG G	1620 452
1621 453	L GC	GC# Q	GT) Y	ACT W	GGG	ACG G	GGAC	CA(CAGI D	ACATO	T	CCA(R	GAA T	CAG V	TCC.	ACTO W	G G	CAC	P	CTCT S	1680 472
1681 473	L GC	CCTT F	TTC: Q	AGA K	AGG	EAGG	CATA Y	TA	CCC(R	GTGTC V	G C'	TGA I	TAG G	GAA N	ATA I	TTG: D	ACCT L	GT(CCAC R	GCTC L	1740 492
174: 49:	1 A:	rct: F	TTC(CCG	CTC	SCT?	CATO	CAG G	GGC R	GAAT(M	G G V	TGG E	AGG A	CCT	TTG	CCC R	GCAG R	AG A	CCT? L	rgtgg W	1800 512
180: 51:	1 G	ATG A	CTG G	GTC	TCI	TTAA	TATGO	ЭТС Н	ATG	GGAC	A. G G	GCC	ACG	GCA	TTG	GCA N	ACTI F	CC L	TGT(C	GTGTC V	3 1860 532

FIG. 2C

1861 533			etg(W	GC (PD7			CCA(Q	GTC(S	CAAC N	AA N	CAT I	CGC A	TA M	TGGC A	CAA K	GGG G	CAT(M	STT(F	TACT	1920 552
1921 553				AC P		TTE Y			TAA K	GGA' D	TGGA G	. GA E	ATI F	TGG G	GA I	TCCC R	TCT L	CGA E	AGA' D	TGT V	GGCT A	1980 572
1981 573				AG E		CA <i>I</i>		AC T		GTA Y	CCCA P	G G	GGG# E	L L	AC P	CTG2 D	L L	TGT V	GGT V	ATC S	ATTT F	2040 592
2041 593						GG2		CT L	CAT		TGT(V	AC S		rgci L	GT S	CTC	C G GA E	AGCA H	TCT L	CCA Q	GTAC Y	2100 612
2101 613						AC			CAT	rcce R	EGGA	G Al K	AGG' V	TGG(G	GTC P	CAG E	AGC:	IGCA Q	GAG R	GCG R	CCAG Q	2160 632
	. CI			AGG E			GAC E	GTG W			AACA Q	G С Н	ACA T	CAG. E	AGC P	CCC	TGG(CCGC A	CAC R	GGG(A	CCCCA P	2220 652
	L GZ B D						GC(A	CTC S	TGʻ V	TGT' L	TAGT V	G G V	TCT	CCA T	CCC I	TTG	CCA I	TCCT L	TG(GCT(W	GGAGT S	2280 672
	1 G' 3 V		AGA	GGC	TC	CAG	AC'	TCT	CC	TGT	TAAC	:c c	CTCC	ATC	TAC	TATO	GGG	GGCI	CC	CTT(GCTTA	2340 673
234	1 G	CTC	ccc	TCA	CC	CTC	SCA	CTG	AA	.CAT	ACCC	CC #	AAG I	AGCC	cci	r GC:	rGGC	CCAT	TG	CCT	AGAA	A 2400
240	1 C	CTT	TGC	LTA:	CA	TC	CTC	CTI	CI	CCA	AGAC	:c :	TAT	GGAC	AAG	G GT	CCCF	reec (C CC	AGG	AAACI	A 2460
246	1 C	AGG	GCI	TCI	TG	GC	ccc	AGA	A TO	GCA	CCTC	cc (CTG	CAC	CCC	G GG	GTT(TAT	A CC	ACA	CCCT	G 2520
252	1 G	GCC	CCI	'AA'	r cc	CA	GGC	CCC	C G#	LAA!	ragg:	AA .	AGC	CAG	CTA	G TC	TCT	rctc'	r TC	TGT	GATC'	r 2580
258	31 C	AGI	rago	3CC'	F A#	CC	TA:	(AA1	c c:)AA1	CACA	GA	CTG	CTA	CAG	C TG	CTC	CCT	c c	GCC	CAAAC	A 2640
264	11 2	AAGO	ccc	CAA	G A <i>l</i>	LAA	CA	ATG	C C	CCT	ACCA	cc	CAA	.GGG	TGC	C AT	GGT	CCCG	G G2	LAA	ACCCA	A 2700
270	01 (CT	GTC.	ACC	G C	STG	TT	GGG	C G	TAA	CCAG	AA	CTG	TTC	ccc	:c cc	ACC	AGGG	CT	LAA1	AAATC	G 2760
27	61 (CCC	CCA	CTI	T T'	TAI	ACC	ATC	G T	CCA	TTAA	CC	ACC	TGG	TGC	eg c <i>i</i>	TAG	CCAG	SA G	CTG'	TTCGA	A 2820
28	21	ccc	AGC	CAG	SGG)TA	GAA	AAA	ТС	AAC	cccc	GA	CAT	rggæ	ACC	CC AT	rgat	TCCI	PA A	ACC	CGGGG	ET 288
28	81	AGG	TTC	CAT	rg c	CA	AGI	'AAC	:A G	CAG	AGG	SAG	TTZ	AAGC	CA!	FA GO	raae	TTG	EC T	GTG	gagt <i>i</i>	AA 294

FIG. 2D

2941 GAGGGAATGC GGTGAGGCAG TGTGGAATAT GACCCTACCA GAGGTTGGAG AACAAACTTG 3000
3001 GGCAGCCGGA ACCCGTCACT ATTTTAGATT CCTGGCATTC GAGGAGCCCT TTGAACTTTC 3060
3061 CAAAGTGCAG CCACAGCTAC AATGCTGTTA AATCCTCCCA CATTTCTTGG ATGCCCCTTC 3120
3121 ACCTTGTGTG GACAGTGTCT GGTTTCCCCA TTTTACAGAC AGGAAAACTG AGCTTCAGAC 3180
3181 AGGGGGTGGG CTTTGCCTAA GGACACACAA ATTTGGTTGG GAGTTGATGG GGCCAGATGA 3240
3241 GCCAGCATTC CAGCTGTTTC ACCCTTCAGC AACATGCAGA GTCCCTGAGC CCACCTCCCA 3300
3301 GCCCTCTCCT CATTCTCTGA ACCCACTGTG GTGAGAAGAA TTTGCTCCGG CCAAATTGGC 3360
3361 CGTTAGCCAC CTGGGTCCAC ATCCTGCTAA GACGTTTAAA ACAGCCTAAC AAAGACACTT 3420
3421 GCCTGTGG 3428

FIG. 3A

1	CT	GTG		GG A		TCA S	TC S			CCC P		ra (GAG E	CTC L	Q Q	AT S	CCI	rcc S	AAC N	CA Q	GAG S	CC2 Q	AGC I	TC (60 18
				AAA N	ΡĀ	'GC'I A	TAC T	GGC A	CTG C	TG# D	ACA! N	AT	GCI A	rcci P	AGA. E	AG A	CC!	M LGG	GAC D	CT L	GCT L	GC:	AC <i>I</i> F	AGA :	120 38
121 39								CAT I	CT(CAT I	TCT C	GT	TT(F	CTT(F	CGG G	CC L	TC	CT# L	G GG(GAA N	CCT L	TT F	TTC 7	GTC V	180 58
181 59	CI L	GT:	V V	TCT F	T	CCT L	CCI L	GCC P	CCC R	GGC(R	GGC. Q	AA	CT(gaa N	CGT V	GG A	CA	ga <i>i</i> E	LATO I	CTA Y	CCI	GG A	CC.	AAC N	240 78
241 79	C7 L	PGG A	CAG A	CCT	' C'	TGA D	TCI L	GGT V	GT F	rtg V	TCT L	TG	GG G	CTT L	GCC P	CT F	TC	TG(W	GC. A	AGA E	ga <i>i</i> N	ATA I	TC'	TGG W	300 98
301 99	A. N	ACC. Q	AGT F	TTA	A I	CTG W	GC(TTT F	CG G	GAG A	CCC	TC	CT L	CTG C	CCC R	STG V	TC	AT(CAA N	CGG G	GG?	rca I	TC	AAG K	360 118
361 119						CAT I	CA(GCAT I	CT F	TCC	TGC	otg 1	GT V	'GGC A	CA: I	PCA S	. GC	CA Q	GGA D	CCG R	CT. Y	ACC I	CGC R	GTG V	420 138
421 139	C	TGG V	TG(CACC	C C P	rat: M	GG A	CCAC S	G CG	GAA F	s (CAG Q	C#	AGC(R	GGC(R	GGA F	. G(GCA Q	GGC A	CCG R	GG V	TC	ACC r	TGC C	480 158
		TGC		ATC' I '	T (GG? V	TTG V	TGG(GGC	GCC	CTC:	TTG L	AC S	GCA'	TCC P	CC#	A Ci	ATI F	CCI	GCI L	GC R	GA'	rcc s	ATC I	540 178
54: 17:	1 0	CAAC ()	CC	GTC V	C (P	CAG D	ATC L	TGA.	A C	ATCI	ACC	GCC A	: то С	GCA' I	TCC L	TG(C T	CCI	P	CCC#	A TG	AG	GC(A	otgg W	600 198
				GCA A				TGG E		rtai L	AAT. N	ATI I	L L	TGG G	GTT F	TC	C T L	CCT L	P P	CAC'	r GG	CT Y	GC(A	GATC	660 218
66 21	1 (9 \	GTC' V	TTC F	TTC F	A N	ACT Y	ACC	CACA H I	T C	CTG L	GCC A	TCC S	C C L	TGC R	GAA	rce	C G R	GG/ E	AGG. E	AGG' V	r cz	AGC	AG R	GACA T	. 720 238
72 23	1 2	AGA R	GTG	CGC R	G G	GGC F	CG	AAGG K I	SA T	AGC S	AAG K	GAC(C A T	CAC	CGC	CTG	A I	CC'	rca T	CGC L	T C	etc V	gt V	TGCC A	780 258
78 25	11	TTC F	CTC L	GT(V	CT C	GCI	egg	GCCC A I	CC T	TAC Y	CAC H	TT F	C T F	TTC	GCT	rtc F	C I	GG E	AAT F	TCT	T A'	TTC F	CA Q	GGTC V	3 849 278
84 27	11	CAP O	GC2	AGT(CC R	GAC	GC	TGC?	rr 1 F	TGG W	GA(3GA D	C 1	TC	ATT(GAC D	C 7	oon O	GCC	TGC	A A	TT(L	GGC A	CAAC N	2 90 29

FIG. 3B

901	ጥጥረ	الباليات	rgco	CT	TCAC	TAA	CAG	CTC	ССТ	GAAT	CC	AGT	AAT	ΤT	ATGT	CTI	TGT	GGG	CCG	GCTC	960
299	F	F	A	F	T	N	S	s	L	N	P	v	I	Y	V	F	V	G	R	L	318
961 319	TT F	CAG R	GAC T	CA K	AGGT V	CTG W	GGA E	ACT L	TTA Y	TAAA K	CA Q	ATG C	CAC T	CCC P	CTAA K	AAC S	TCT L	TGC A	TCC P	AATA I	1020 338
.021 339									CTI F	CCAA Q		TTI F	CTC W	GGC R	GGAA N	\TT2 *	Aaa	CAC	GCA!	PTGAA	1080 353

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FIG. 4A

1	СT	GT(G A			TCC S		GC F	CCC	CCT P	CTA L	GA E	AGC L	TC	CAA Q	T S	CCT	rcc S	AAC N	CA Q	GAC S	906 Q	AGC	TC	60 18
61 19	TT F	CC P	CT(CAF Q	A N)TA	GCT A	AC(GGC A	CI	rgt C	GAC D	CAAT N	G(OTC F	CA	ga <i>i</i> E	AG A	CC'	TGG W	GA(D	CT L	GC'	rgc E	:ACI	AGA R	120 38
121 39	GI V	rgc L	TG	CC(SA T	CA'	TTI F	'AT	CAT I	C'	rcc s	AT(I	CTGI C	T'	TCI I	rtc ?	GG(CC L	TC	CT <i>I</i> L	G G	GAA N	CC	TTI I	rtti F	GTC V	180 58
181 59	C7	rgi I	TG	GT V	CT F	тс	CT(CT L	GCC P	: C:	CGG R	CG R	GCAP Q	L L	TG2	AAC N	GT V	GG A	CA	GAZ E	AAT I	CTA Y	CC	TG(GCC.	AAC N	240 78
241 79	C'	TG(SCA	GC A	CT S	СТ	GA:	rct L	TGGT V	' G	TTI F	GT V	CTT(G G	GC'	TTC L	ECC P	CT F	TC	TG W	GGC A	AGA E	GA N	AT.	ATC I	TGG W	300 98
301 99							TG: W	GCC P	TTT F	r c	:GG2 G	AGC A	CCT L	C C	TC	TG(CCG R	TG V	TC	CAT I	CAA N	.cgg .c	; G0	STC 7	ATC I	:AAG K	360 118
361 119							CAT I	CA(GCA'	r c	TTC F	CCI	rggt V	G (stg J	GC A	CAT	CA S	. G(CCA Q	.GG <i>I</i>	ACCG R	G C	rac Y	:CGC R	GTG V	420 138
421 139	L C	CTG	GT V	GC <i>I</i> H	ACC	: C'	TAT M	'GG' A	CCA S	G (CGG G	AAC R	egca Q	.G (CAG Q	GCG R	GC(GGA F	ı G	GC <i>I</i> Q	AGG(ccco R	3 G	GTC V	ACO T	CTGC C	480 158
	1 (3TG	CT	CA'	rci	C G	GGT	TG		G (ccc	ירכי		G	AGO	ra:	'CC	CCI	A C	AT!	rcc	TGC'	T G	CGI	ATC	CATC	540 178
54: 17	1 (CAI Q	AGC A	:CG	TC(C C	AGI D	ATC L	TGA	.A. '	CAT I	CA T	CCGC	ec	TG(CAI	rcc L	TG(C T L	CC'	TCC P	CCC.	А Т	GA(ЭGC А	CTG(3 600 198
60	1	CAG	CTI		CA	A G	GA'	rtc	TGC	SA	GTT	AA1		TT	CT	GG(3TT		C 1	rcc	TAC		T G		TGC		C 660 218
66 21	1	GT V	CT?	rct F	TC	A <i>I</i> N	CT.	AC(CACI	AT I	CC'	rgg A	CCT S	cc	CT L	GC(GA.	ACG	C (GGG E	AGC	EAGG	FT (CAG S	CAC R	GAC. T	A 720 238
						•					ma	~~ <i>*</i>	אמא		A C	ם.	CGC	ישי	: A '	TCC	TC	ACGO	et (CGI	GG:	rtgc	25 780 258
_					-mc		~~n	3CC	ccc		ጥጥ	አ ሮ(ጉልሮባ	· 'T'C'	ηνη	rтG	cc'	TTC	·	TGO	GAA'	rtc:	PT .	ATT	rcc	AGGI	SG 849 27
							~3.0		·mc·c	•	ጥፕ	·CC	GAGG	PAC	Tr	rcz	TT	GAG	CC	TG	GGC	CTG	CA	AT?	rgg	CCA!	AC 90 29

FIG. 4B

901 299	TT(CTT F	TGC(CT F	TCA(TAF N	CAG S	CTC S	CCT L	GAAT N	CC.	agt V	AAT I	TT Y	ATGT V	CTT F	tgt V	GGG G	CCA Q	GCTC L	960 318
961 319	TT F	CAG R	GAC T	CA K	AGG' V	TCT(W	EGGA	ACT L	TTP Y	TAAA K	CA Q	ATG C	CAC T	CCC P	CTA#	AAA S	ETCT L	TGC A	TCC P	AATA I	1020 338
.021 339	TC S	TTC S	ATC S	CC H	ATA R	GGA.	AAGA E	AA7	CT? F	rccai Q	A CI L	TTTI F	OTOT W	GGC R	GGAJ N	ATT! *	AAAA	CAC	GCA!	ITGAA	1080 353

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FIG. 5A

1	CT	GT							TG W	GCC P			TA	GA(GCT	CCA	AT	CC	TCC S	AAC N	CA	GAG S	CC O	AGC I	TC	60 18
1			M		A	2	5	5	W	P	r		,		_	~			_		-		~			
61 19							GCT A	'AC(T	GGC A	CTG C	TG: D	ACA N	AT I	GC' A	TCC P	AG <i>I</i> E	A A	CC	TGC W	GA(D	L	GCT L	GC H	ACI	AGA R	120 38
121 39	GI V	GC L	TG(CA P	A T		TTI F			CT(CCA' I	TCI	TGT	TT F	CTI F	CG(G	GCC L	T	CT? L	G G	GAA N	CC'	rti F	TTC	GTC V	180 58
181 59	CI L	GT L	TG	GTC V	T F	TC	CT(L	CT L	GCC P	CCC R	GGC R	GG(CAA Q	CT L	'GA! N	ACG' V	TGG A	C	AGA E	AAT(I	CTA Y	CC'	TGC I	SCC	AAC N	240 78
241 79					CT S	СТ	GA:	rct L	GGT V	GT'	TTG V	TC'	ITG L	GG G	CT'	rgc P	CCT F	T	CTG W	GGC A	AGA E	GA N	AT	ATC I	TGG W	300 98
301 99	A. N	AC(CAG Q	TT: F	PA N	AC	TG W	GCC P	TTT F	CG G	GAC	SCC	CTC L	CT L	CT C	GCC R	GTG V	; T	CAT I	CAA N	.cgg .g	GG V	TC.	ATC I	AAG K	360 118
361 119	G A	CCi	raa V	TT L	GT F	TC	CAT I	CAC S	CAT	CT F	TC(CTG L	GTG V	G'	TGG A	CCA	TCA	i i i	CCA Q	.GG# D	CCG R	CI Y	'AC	CGC R	GTG V	420 138
421 139	C	TG	GT(V	CA H	CC P	C.	TAT M	PGG(A	CCAC S	G CG	GAI	AGC R	CAC Q	C. Q	AGC F	:GGC	GGZ	A. C R	GC <i>I</i> Q	A A	CCCC R	GC 7	STC J	ACC T	TGC C	480 158
481 159	. G	TG	CT(CAT I	CI W	: G	GG1 V	TG' V	rgg(3 GC	GC 3	CT(L	CTTC L	G A S	GC#	TC(CCC	A C	CATT F	rcc: L	rgc: L	r G(1	CGA R	TC(CATC	540 178
541 179	L C	CAA Q	.GC(A	CGI V	CC	C C	AGA D	ATC L	TGA. N	A C	ATC I	AC(T	CGC(A	C T	GC <i>I</i>	ATC(CTG L	C :	rcc: L	rcc P	CCC: H	А. Т(GAC E	GC(A	CTGC W	600 198
			TT F				GA'	r t g V	TGG E	A G	TTA L	AA' N	TAT I	T C	CTG(GGT G	TTC F	C	TCC'	TAC P	CAC L	T G	GC! A	rgc A	GAT(2 660 218
66 21	1 (GT(CTT F	CT'	rc:	A. A N	CT. Y	ACC F	ACA	тс	CTG L	GC A	CTC S	C (CTG L	CGA R	ACG T	C R	GGG E	AGG E	AGG V	тс	AG S	CAG R	GAC. T	A 720 238
72 23	1 .	AGI R	AGI V	GC R	GG	G (GC P	CG/	AAGC	SA T	'AG(S	CAA K	GAC T	:C	aca T	GCG A	CTC L	SA I	TCC L	TCA	.CGC	· TC	GT V	GGI V	TGC A	C 780 250
78 25	1 9	TT F	CC1	oor V	TC	T (GCI W	rgg(GCC(CC T	AT? Y	CCA H	CTI F	rc	TTT F	GCC A	TTC F	CC L	TGC E	CAA:	rtci F I	TT 1	ATT F	CC <i>I</i>	AGGT V	G 84 27
84	11	CA	AG(CAG V	TC	C (GAG	GC'	TGC:	rr 1	rtg W	GG <i>I</i> E	AGG2 D	AC	TTC F	ATT	rga D	CC L	TGC	3GC(CTG(CA 2	ATT L	'GG(A	CCAA N	AC 90 29

FIG. 5B

01 299	CTT:		CT F	TCAC T	AAT N	CAG S	CTC(GAAT N	CC:	AGT. V	AAT' I	TT Y	ATGT V	CTT F	TGT V	GGG(CCG(R	CTC L	960 318
961 319	CAG R	GAC T	CA K	aggi V	CTG W	GGA E	ACT L		TAAA K	CA Q	ATG C	CAC T	CC P	CTAA K	AAG S	TCT L	TGC A	TCC P	AATA I	1020 338
021 339	TTC S	ATC S	СС Н	ATAC R	GA? K	AGA E	AAT I	CTT F	CCAA Q		TTI F	CTG W	GC R	ggaa N	.TT# *	AAA	CAG	CAT	TGAA	1080 353

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FIG. 6A

1	ΓA	GT	TC:	CT	C	CCI	'GG.	AAG	AT .	ATC	TA	GTTT	CT	GT	CTG	TTC	: 0	TGAG	GAC	TC	CGT	GCC(CACC	60
	M				P		1		I	S		F	L			F				s	V	P	T	20
61 21									GA D	CAT(M	GCT L	CAAT N	GI V	CAC T	CCT L	TGC	2	AAGG0 G	P	AC T	TCT L	AAT N	ceee e	120 40
121 41	A(CCI F	TT	GCC A	C Q	AGZ	AGC S	:AA/ K	ATG C	CCC(CCA Q	agtg V	G# E	AGT W	GGC I	TG(3 (GCTG(W	CTC L	CAA N	CAC T	CAT I	CCAG Q	180 60
181 61	C	CCC	cc	TT(F	CC L	TC'	rgo W	GT(V	GCT L	GTT F	CGT V	GCTG L	G(A	CCA T	CCC	CTA(G / E	agaa(N	CATO I	TT F	TGT V	CCT L	CAGC S	240 80
241 81	G	TC:	r r c	TG(CC L	TG	CA(H	CAA(K	GAG S	CAG S			G'	TGG A	CA(GAG. E	A '	TCTA(Y	CCT(L	GG G	GAA N	L L	GGCC A	300 100
301 101	. G	CA	GC <i>P</i> A	GA D	CC L	TG	AT(CCT L	GGC A	CTG C	G G	GCTC L	G C	roo E	TC	TGG W	G A	CCAT I	CAC T	CAT I	CT(CAJ N	ACAAC N	360 120
361 121	L T	TC	GA(D	CTG W	GC L	TC	TT' F	TGG G	GGA E	GAC T	r CGC:	rctg(C C R	GC(GTG /	GTG V	A N	ATGC A	CAT	TAT I	CT(CCA'	GAAC N	420 140
421 141									TTT F			TGCT(L		TG	AGC S	ATC I	G D	ACCG R	CTA Y	CCT L	GG(CCC'	rggt(480 160
				CAI M					GCCG R		TGC R	GCGG G	C G	STG 7	CGC R	TGC W	≆G A	CCA#	AGCI L	CTA Y	CA S	GCT L	TGGT(V	3 540 180
				GG(rgci L			GCTC	A (P P	ATC M	CT(3G V	TGTT F	rccc R	GAC T	CA M	TGA K	AGGA E	G 600 200
		TAC Y				G A E			ACA <i>I</i> N			CCGC		TGT C	GT(V	TAC I	CA S	GCT2 Y	ACC(CATO S	C CC L	TCA	TCTG W	G 660 220
66 22	1	GA E	AGI V	'GT' F	TC.	A C T	CAI N	ACA M	TGC:	r cc ı	TGA	PTEL V 1	C	GTG V	GG(CTT F	CC L	TGC L	TGC(CCC!	r ga	GTC	TCAT	C 720 240
72 24	11	AC T	CTT F	CT C	GC	A C T	GA' M	TGC Q	'AGA'	T C#	ATG(CAGGT	rg ·	CTC L	CG R	gaa N	CA N	ACG	AGA M	TGC: Q	A G? I	AAG?	TCAA K	G 780 260
78 26	31 51	GA E	GA!	rcc	AG	A C	GG. E	AGA F	LGGA R	G G(GCC	ACGG'	rg	CTI L	\GT V	CCT L	GC V	TTG	TGC L	TGC L	T GO	CTA!	rtcat f I	C 840 280
84	41 81	AT T	CTO	GCI W	'GC	EC 1	rgc P	CCI	TCC	A G	ATC.	AGCA S T	cc	TT(CCT L	GGA D	TP T	A CGC	TGC	ATC	G C	CTC	GGCA:	rc 90 30

FIG. 6B

901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG 960 301 L S S C Q D E R I I D V I T Q I A S F M 320
961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA 1020 321 A Y S N S C L N P L V Y V I V G K R F R 340
1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG GGGGCTGCAG GTCAGAACCC 1080 341 K K S W E V Y Q G V C Q K G G C R S E P 360
1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT 1140 361 I Q M E N S M G T L R T S I S V E R Q I 380
1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG 1200 391
1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT TTTCAGCATG GGCCCAGGAA TGCCAAGGAG 1260
1261 ACATCTATGC ACGACCTTGG GAAATGAGTT GATGTCTCCG GTAAAACACC GGAGACTAAT 1320
1321 TCCTGCCCTG CCCAATTTTG CAGGGAGCAT GGCTGTGAGG ATGGGGTGAA CTCACGCACA 1380
1381 GCCAAGGACT CCAAAATCAC AACAGCATTA CTGTTCTTAT TTGCTGCCAC ACCTGAGCCA 1440
1441 GCCTGCTCCT TCCCAGGAGT GGAGGAGGCC TGGGGGGAGG GAGAGGAGTG ACTGAGCTTC 1500
1501 CCTCCCGTGT GTTCTCCGTC CCTGCCCCAG CAAGACAACT TAGATCTCCA GGAGAACTGC 1560
1561 CATCCAGCTT TGGTGCAATG GCTGAGTGCA CAAGTGAGTT GTTGCCCTGG GTTTCTTTAA 1620
1621 TCTATTCAGC TAGAACTTTG AAGGACAATT TCTTGCATTA ATAAAGGTTA AGCCCTGAGG 1680
1801 TGAGCACTGT AGGCAAGACC CAAGAAAGAG AAGGAGCCAT CTCCATCTTG AAGGAACTCA 1860
1861 AAGACTCAAG TGGGAACGAC TGGGCACTGC CACCACCAGA AAGCTGTTCG ACGAGACGGT 1920
1921 CGAGCAGGGT GCTGTGGGTG ATATGGACAG CAGAAGGGGG AGACCAAGGT TCCAGCTCAA 198
1981 CCAATAACTA TTGCACAACC ACCTGTCCCT GCCTCAGTTC CCTTTTATGT AACATGAAGT 204

FIG. 6C

2041 CGTTGTGAGG GTTAAAGGCA GTAACAGGTA TAAAGTACTT AGAAAAGCAA AGGGTGCTAC 2100 2101 GTACATGTGA GGCATCATTA CGCAGACGTA ACTGGGATAT GTTTACTATA AGGAAAAGAC 2160 2161 ACTGAGGTCT AGAAATAGCT CCGTGGAGCA GAATCAGTAT TGGGAGCCGG TGGCGGTGTG 2220 2221 AAGCACCAGT GTCTGGCACA CAGTAGGTGC TCATTGGCTC CCTTCCACCT GTCATTCCCA 2280 2281 CCACCCTGAG GCCCCAACCG CCACACACA AGGAGCATTT GGAGAGAAGG CCATGTCTTC 2340 2341 AAAGTCTGAT TTGTGATGAG GCAGAGGAAG ATATTTCTAA TCGGTCTTGC CCAGAGGATC 2400 2401 ACAGTGCTGA GACCCCCCAC CACCAGCCGG TACCTGGGAA GGGGGAGAGT GCAGGCCTGC 2460 2461 TCAGGGACTG TTCCTGTCTC AGCAACCAAG GGATTGTTCC TGTCAATCAA TGGTTTATTG 2520 2521 GAAGGTGGCC CAGTATGAGC CCTAGAAGAG TGTGAAAAGG AATGGCAATG GTGTTCACCA 2580 2581 TCGGCAGTGC CAGGGCAGCA CTCATTCACT TGATAAATGA ATATTTATTA GCTGGTTGGA 2640 2641 GAGCTAGAAC CTGGAGAGCT AGAACCTGGA GAACTAGAAC CTGGAGGGCT AGAACCTGGA 2700 2701 GAGGCTAGAA CCAAGAAGGG CTAGAACCTG GAGGGGCTAG AACCTAGAGA AGCTAAAACC 2760 2761 TGAGCTAGAA GCTGGAGGAC TAGAACCTGG AGGGCTGGAA TCTGAAGGGC TAGAACCTGG 2820 2821 AGGGCTGGAA TCTGGAGAGC TAGAACCTGG AGGGCTAGAA CCTGGAGGGC TAGAACCTAG 2880 2881 AAGGGCTAGA ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG 2940 2941 GAGGGCTAGA ACCTAGAAGG GCTAGAACCT GGAGGGCTAG AACCTGGCAG GTTAGAACCT 3000 3001 AGAAGGGCTA GAACCTGGAG AGCCAGAACC TGGAGGGCTA GAACCTGGAA GGGCTAGAAC 3060 3061 CTGTAGAGCT AGAACATGGA GAGCTAGAAC CCGGCAGGCT AGAACCTGGC AAGCTAGAAC 3120 3121 CTGGAGGGAA TGAACCTGGA GGGCTAGAAC CTGGAGAATG AGAAAAATTT ACATGGCAAA 3180 3181 GAGCCCATAA ATCCTGACCA ATCCAACTCT GAATTTTAAA GCAAAAGCGT GAAAAAAAA 3240

FIG. 6D

3241 ATTCCCTCCT TACCCCCAAC CCACTCTTT TTCCCACCAC CCACTCTCT CTGCCTCAGT 3300

3301 AAGTATCTGG AGGAAGAAAA CAGGTGAAAG AAGAAGTAAA AACCATTTAG TATTAGTATT 3360

3361 AGAATGAAGT CAAACTGTGC CACACATGGT GAATGAAAAA AAAAAAAAAG AGGCTGTGTT 3420

3421 TTGTCACACA GGGCAGTCAT TCAGCACCAG AGCACGTGAT GGTCTGAGAC TCTCTTAGGA 3480

3481 GCAGAGCTCT GCCGCAATGG CCATGTGGGG ATCCACACCT GGTCTGAGGG GCAACTGAGT 3540

3541 CTGCGGGAGA AGAGCGGCCC TATGCATGGT GTAGATGCCC TGATAAAGAA CATCTGTCCT 3600

3601 GTGAAAGACT CAATGAGCTG TTATGTTGTA AACAGGAAGC ATTTCACATC CAAACGAGAA 3660

3661 AATCATGTAA ACATGTGTCT TTTCTGTAGA GCATAATAAA TGGATGAGGT TTTTGCAAAA 3720

3721 AAAAAAAAAA AAA 3733

FIG. 7A

1 AATTCAGAGC CACCGCGGC AGGCGGCAG TGCATCCAGA AGCGTTTATA TTCTGAGCGC 60
61 CAGTTCAGCT TTCAAAAAGA GTGCTGCCCA TAAAAAGCCT TCCACCCTCC TGTCTGCTTT 120
121 AGAAGGACCC TGAGCCCCAG GCGCCAGCCA CAGGACTCTG CTGCAGAGGG GGGTTGTGTA 180
181 CAGATAGTAG GCTTTACGCC TAGCTTCGAA ATGGATAACG TCCTCCCGGT GGACTCAGAC 240 M D N V L P V D S D 10
241 CTCTCCCCAA ACATCTCCAC TAACACCTCG GAACCCAATC AGTTCGTGCA ACCAGCCTGG 300 11 L S P N I S T N T S E P N Q F V Q P A W 30
301 CAAATTGTCC TTTGGGCAGC TGCCTACACG GTCATTGTGG TGACCTCTGT GGTGGGCAAC 360 31 Q I V L W A A A Y T V I V V T S V V G N 50
361 GTGGTAGTGA TGTGGATCAT CTTAGCCCAC AAAAGAATGA GGACAGTGAC GAACTATTTT 420 51 V V V M W I I L A H K R M R T V T N Y F 70
421 CTGGTGAACC TGGCCTTCGC GGAGGCCTCC ATGGCTGCAT TCAATACAGT GGTGAACTTC 480 71 L V N L A F A E A S M A A F N T V V N F 90
481 ACCTATGCTG TCCACAACGA ATGGTACTAC GGCCTGTTCT ACTGCAAGTT CCACAACTTC 540 91 T Y A V H N E W Y Y G L F Y C K F H N F 110
541 TTTCCCATCG CCGCTGTCTT CGCCAGTATC TACTCCATGA CGGCTGTGGC CTTTGATAGG 600 111 F P I A A V F A S I Y S M T A V A F D R 130
601 TACATGGCCA TCATACATCC CCTCCAGCCC CGGCTGTCAG CCACAGCCAC CAAAGTGGTC 660
661 ATCTGTGTCA TCTGGGTCCT GGCTCTCCTG CTGGCCTTCC CCCAGGGCTA CTACTCAACC 720
721 ACAGAGACCA TGCCCAGCAG AGTCGTGTGC ATGATCGAAT GGCCAGAGCA TCCGAACAAG 780
781 ATTTATGAGA AAGTGTACCA CATCTGTGTG ACTGTGCTGA TCTACTTCCT CCCCCTGCTG 84 191 I Y E K V Y H I C V T V L I Y F L P L L 21
841 GTGATTGGCT ATGCATACAC CGTAGTGGGA ATCACACTAT GGGCCAGTGA GATCCCCGGG 90 211 V I G Y A Y T V V G I T L W A S E I P G 23
901 GACTCCTCTG ACCGCTACCA CGAGCAAGTC TCTGCCAAGC GCAAGGTGGT CAAAATGATG 96

FIG. 7B

				•			·				maa.	- CMC	700	СПТ	ጥርርል	ጉልጥር		ርጥጥር	CTC	CTG	1020
								CGCC	JATC I	CTGC	W	. Т.	P	F	Н	I	F	F	L	L	270
251	Ι	V	V	V	С	Т	r	A	_	C	**	_	•			_					
																				•	
1021	CC	СТА	CAT	CA.	ACCC	'AGA	TCT	CTA	CCT	GAAG	AA	GTT'	TAT	CC	AGCA	GGT	CTA	CCT	3GCC	ATC	1080
271				N	P		L	Y	L	K	K	F	I	Q	Q	V	Y	L	A	I	290
	_	_																			
							•			•					mam.	ama.		CCM	חת מים	י פאר	1140
1081	ΑT	GTG	GCT	GG	CCAT	ľGAG	CTC	CAC	CAT	GTAC	AA	CCC	CAI	CA	TCTA	C.T.G	CIG	T.	N	D	310
291			L	A	M		S	T	M	Y	N	P	T	I	I	C	C		24	_	5_0
																					,
							•	~~~	maa	CTTC	CG	വസവ	- ጥር	-00	CCTT	CAT	CAG	CGC	CGG	CGAC	1200
					TGG	3CTT	'CAA	GCA	A A	F	P	C	C	P	F	I	s	A	G	D	330
311	R	F	R	L	G	F	K	п	A	F	1	_	Ŭ	-	_						
																				•	
1201	ma	mc z	ccc		тсс	ימממ	· rgaa	ATC	CAC	CCGG	TA	TCT	rcci	AGA	CCC	AGGC	CAG	TGI	GTA	CAAA	1260 350
		E				М		s	Т	R	Y	L	Q	T	Q	G	S	V	Y	ĸ	350
331	•		Ŭ	_	_																
										•				•							1220
1261	. G7	CAC	CC(зсс	TGG	AGA	CCAC	CA	rcto	CCACA	. G:	rgg	rgg	GGG	CCC	ACGA	AGGA	GGF	iGCC P	AGAG E	1320 370
		S				т	T	I	S	T	V	V	G	A	. н	E	E	£	F		3,0
				•								x ~ ~ ~ !	ጥር እ	ССП	י ככם	ልሮሞር	CTC	тт	CACC	AAGT	1380 390
132:	L G	ACG	GCC	CCA	AGG	CCA	CACC	CT	CGT	L	ים ת	ACC L	T		N	C	S	s	R	s	390
37:	l D	G	P	K	C P	T	P	>	S	ь	ט		•	-		·	_				
															,						
420		3 OM	~~ »	201	, \ CC1	ስጥር እ	CAG	A GA	GCT	TCAG	T	TCT	CCI	CCZ	ATG	TGC	TCTC	CT	AGGC	CACA	1440 407
		ACT				M I	E	S	F	s	F	s		1 2	1 V	L	S	*			407
39	ד ד		- 1			•	_	_													
											•				•						. 1500
144	1 G	GGC	CTI	TG	G CA	GGTC	CAG	c cc	CCA	CTGC	CI	TTG	ACC	CTG	CTC	CCT	TCA?	r GC	ATG	GAAA'	1500
								•			•					nm-0-0	מממו	N NC	CCT	ር እርጥ?	4 1560
150	1 1	rccc	TTC	TAC	C TG	GAAC	CAT	C AC	SAAP	ACACC	CI	CAC	CAC'	rgg	G AC	L.I.CC	AAA	A AC	GGI	CAGI	A 1560
																		_			
					•				n-C-C-C	nmc	· m (ז מ מי	444	ልጥ ሮ	· TCA	ATTC	TTC	C CI	ATC	TTTG	C 1620
156	1 7	rgg	3TT	AGG	G AA	AAC	ATTC	C A	rcc.	I"TGAG	1	AA	-	AI C				_			
		~~~		~ » IT	·	CTC	TCAC	ייתי כי	אממ	CCAAA	T (	CAC	TGA	ACT	T TG	CTG	AGCC	T G	AAA)	AATA	A 1680
162	Δ. T. (	CAC	CT	CAT	G CI	310	I GAC				_										
					_										•			•			
169	R 1	AGG	TCG	GAC	C AC	CTT	TTC	T C	AAG.	AGCCC	CA .	ATG	CAT	TCC	TT A	TCT	GGAA	G T	BACT	TTGG	C 1740
10.																					
17	41	TGC	ATG	CGI	AG TO	CTC	ATT!	rc a	GGA	TG 1	766										

# FIG. 8A

1 አልጥጥሮል	GAGC CAC	CGCGGGC 2	AGGCGGGC1	AG TGCA	TCCAGA	AGCGTTTA	TA TTC	TGAGCGC	60
61 CAGTTC								•	
								•	
121 AGAAGG	ACCC TGA	GCCCCAG	GCGCCAGC	CA CAGO	SACTCTG	CTGCAGAG	GG GG(	STTGTGTA	180
181 CAGATA	AGTAG GCT	DDDDATTT	TAGCTTCG	AA ATGO M I	EATAACG O N V	TCCTCCCG	GT GG	ACTCAGAC S D	240 10
241 CTCTCC		ATCTCCAC	TAACACCT N T S	CCG GAA	CCCAATC P N Q	AGTTCGTC F V	CA AC Q P	CAGCCTGG A W	300 30
301 CAAAT 31 Q I	TGTCC TT V L	TGGGCAGC W A A	TGCCTACA	ACG GTC	ATTGTGG V V	TGACCTC!	TGT GG V V	TGGGCAAC GN	360 50
361 GTGGT 51 V V	PAGTGA TG V M	TGGATCAT W I I	CTTAGCC L A	CAC AAA H K	AGAATGA R M F	GGACAGT	GAC GA	ACTATTT Y F	r 420 70
421 CTGGT 71 L V		GCCTTCGC A F A	: GGAGGCC E A	TCC ATO	GCTGCA'	I TCAATAC F N T	AGT GO	STGAACTT V N F	C 480 90
481 ACCTA 91 T Y		CCACAACG! H N E	ATGGTAC W Y	TAC GGG Y G	CCTGTTC L F	T ACTGCAA Y C K	GTT C F	CACAACTT H N F	C 540 110
541 TTCC		CGCTGTCT' A V F	I CGCCAGI A S	ratc ta I Y	CTCCATG S M	A CGGCTG' T A V	rggc c A	TTTGATAG F D R	6 600 130
601 TACA 131 Y M		CATACATC I H P	C CCTCCA L Q	GCCC CG P R	GCTGTC! L S	AG CCACAG A T A	CCAC C	AAAGTGGT K V V	C 660 150
661 ATCI 151 I	rgtgtca i C V I	CTGGGTCC W V L	T GGCTCT A L	CCTG CT	GGCCTT( A F	CC CCCAGG P Q G	GCTA (	CTACTCAA Y S T	CC 720 170
721 ACAC	GAGACCA 1 E T M	rgcccagc <i>i</i> p s f	AG AGTCGI R V V	C M	rgatcga I E	AT GGCCAG W P E	AGCA '	TCCGAACA P N K	AG 780
781 ATT	TATGAGA	DATGTAAA L Y V	CA CATCTO H I C	GTGTG A V T	CTGTGCT V L	GA TCTACT	TTCCT L	CCCCTGC P L I	TG 840
841 GTG 211 V	SATTGGCT I G Y	ATGCATAC A Y	AC CGTAG' T V V	TGGGA A G I	TCACACI T L	PAT GGGCC W A	AGTGA S E	GATCCCCC	GG 90 G 23
901 GAC	TCCTCTG	ACCGCTAC	CA CGAGC	AAGTC T	CTGCCAI	AGC GCAAG R K	GTGGT V V	CAAAATG	ATG 96 M 25

#### FIG. 8B

							•			•				•		m			-CMC	·	1020
						CAC T		CGC	CATO	CTGC	TGC W	L L	P P	T. F	TCCA(	I	F	F	L	L	270
251	I	V	V	٧	C	T	r	A	_	C	**		•	•		_					
										•				•				000	200		1000
1021	C	CCT	CAI	CA				CTA	CCT	GAAG	AAC	GTTI	TAT	CC	AGCA	GGT(	TA	CCT	3GC(	I	290
271	P	Y	I	N	P	D	L	Y	L	K	K	F	1	Q	Q	٧	1		^	-	
1081	A'	TGT	GC1	rgg	CCAT	GAG	CTC	CAC	CAT	GTAC	AA	ccc	CAT	CA	TCTA	CTG	CTG	CCT	CAA'	rgac	1140
		W			M	S		T	M	Y	N	P	I	I	Y	С	С	L	N	ט	310
														_							
11/1	Δ.	CCT	דרר <i>ו</i>	этс •	тесс	יכיים	CAA	GCA	TGC	CTTC	CG	GTG	CTG	СĊ	CCTT	CAT	CAG	CGC	CGG	CGAC	1200
				L	_		K		A	F	R	C	С	P	F	I	S	A	G	D	330
	_				maa.	. 3 3 0		እመረ	יראר	יררפפ	ጥΔ	ጥርጥ	CCA	GA.	CCCA	GGG	CAG	TGT	GTA	CAAA	1260
				GGC L		M		S	T	R	Y	L	Q	Т	Q	G	s	v	Y	K	350
331			•	_	_			_	_												
				•			•								CCCT	CCN	CCA	GGZ	יפככ	· DGDG	1320
						AGA! T		CAT	rctc S	CACA T	. GT	V	G	ىي. A	H	E	E	E	P	E	1320 370
351	LV	S	R	L	E	T	1	1	٦	•	•		Ŭ								
														•							1200
									CGT	CCTG	G.P	CCI	GAC	CT S	CCA	CTC	CTC S	TTC	ACC R	SAAGT	1380 390
37:	1 I	) (	P	K	A	T	P	s	S	L	D	L	T	5	i N	C	3	3	- 1		330
138	1 (	GACI	CCA	AGA	CCA	TGA	CAG	A GA	GCT'	TCAGO	T	CTC	CCT	CCA	ATG	rgc?	CTC	CT	AGG	CACA	407
				T		T		S	F	S	F	S	S	N	1 V	L	S	-			407
																				•	
1 4 4	1 4	CCC	بالماليات	• የጥረረር	CAG	GTG	CAGO	C CC	CCA	CTGC	T	rtg:	ACC'	TGC	CTC	CCT	rca ₁	GC.	ATG	GAAAT	1500
144		333			, 0																
										a. ca	. m	~ ~ ~	አ ረጥ	cci	3. እርጥ	ጥርር	1444	A AG	GGT	CAGT	1560
150	1	TCC	CTT	CATC	TGG	AAC	CAT	C AG	AAA	CACCI	<u>ا</u> 1	CAC.	AC I	GG	JACI	100					
								•			•				•						
156	1	TGG	GTT	AGG	S AAA	ACI	ATTC	C AI	CCT	TGAG	T C	AAA	AAA	TC'	r caa	TTC	TTC	CT	ATC	TTTG	1620
																		_			
1.00		~~		~ » m/	·	ישיבים	רכ א כי	ጥ ሮጀ	מממ	CAAA	тс	ACT	GAA	CT	· T TGC	TGA	.GCC'	r GI	'AAA'	ATAA	A 1680
102	5 I	<b>LAC</b>	CCT	CMI	J C10	, I G .	·	_ 0,			_										
					•			•			•					10mc	ית מיטי	G. TO	יארית	ייבי	C 1740
168	<b>31</b>	AGG	TCG	GAC	C AGO	CTT	TTCC	T C	AAGA	AGCCC	A A	TGC	A'I'I	·CC	A 1"1"1	CIU	CAA	G 10	nc I	1100	C 1740
174	41	TGC	ATG	CGA	G TG	CTC	ATTT	C A	GGA'	rg 17	66										

## FIG. 9A

1	AAT	TCA	\GA	.GC	CZ	ACC	:GC	GG	GC	AG	GC	GGG	CA	G:	rgc	TAS	CC	AG <i>P</i>	À A	'GCG	TT	TAT	`A	TTC	TG.	AGC	:GC	60	
61	CAG	TTC	CAG	CT	T'	TC <i>I</i>	<b>LAA</b>	AA	GA	GI	'GC'	TGC	ccc	:A '	TAI	\A.P	AG	CCI	r 1	rccz	ACC	CTC	CC	TG?	гст	GC	PTT	120	)
121	AGA	AG	GAC	ccc	T	GAG	3CC	ccc	AG	GC	GC	CAG	GCC	CA	CA	GG <i>I</i>	CT	CT	G (	CTG	CAC	AG	GG	GG	GTT	GTG	GTA	18	0
181 1	CAG	AT.	AG:	PAG	G	CT	тти	ACG	SCC	T	AGC	TT	CGZ	AA	AT M	GG2 D	ATA A	AC	G′ V	rcc' L	TCC	CCG	GT V	GG D	ACT S	CA	GAC D	24 10	0
241 11	CT(	CTC S	CC P	CAZ	A. A V	CA I			AC T	T	AAC N	AC T	CT S	CG	GA E	AC P	CC#	AT	C Q	AGT F	TC	GTG V	CA Q	AC P	CAC	GCC A	tgg W	30 30	0
301 31	CA. Q	AAT I	TG V	TC	C 7	TTI V	'GG I	GCI A	AGC A	т:	GC( A	TA Y	CA T	CG	GI V	CA I	TTC	JTG	G V	TGA T	, CC	TCI S	GT V	GG V	TG(	GGC G	AAC N	36 50	i O )
	. GT						rgg 1	AT(	CAT I	r c	TT L	AGC A	CCC	AC I	A <i>I</i> K	AAA F	GA.	ATC M	GA R	GG <i>I</i>	ACA r	GTC V	GAC T	GZ	AAC 1	TAT Y	rttt F	70	) )
	l CI						GCC A		CG(		GA E	GG( A	CC1	rcc	A! M	rgo 1	CT A	GC: A	AT F	TC	LAA N	AC T	agi V	' G	GTG V	AA( N	CTTC F	9	B 0 0
	1 AC 1 T					тс	CA( H	CAA N	CG.	A 2	ATG W	GT. Y	AC'	rac Y	G G	GC(	CTG L	TT F	CT Y	AC	TG( C	CAA K	GTI F	c C	CAC H	AA: N	CTT(	C 5 1	40 10
	1 T 1 F			AT(	CG A	CC	GC'	TGT V	rct F	· T	CG(	CA S	GT.	ATC	T Y	'AC	TC( S	CAT M	GA T	CG	GC' A	rgt V	GG(	C C	TT?	rga D	TAG R	G 6 1	00 .30
60 13	1 T.	ACA M	ATG 1	GC A	CA I	TC	:AT I	ACZ H	ATC F	C	CC!	rcc	CAG	CC(	C C F	:GG }	CT( L	STC S	AG	cc.	AC T	AGC A	CA T	c c	AA. K	AGI V	Y V	C 6	560 L50
66 15	51 A 51 I	TCT	rgi C	GT V	CA I	T	⊾TG W	GG V	TCC	CT	GG A	CTC	CTC L	CT L	G (	CTG L	GC A	CTT F	rcc I	C CC	CCA Q	.GG( G	CT Y	A (	TA Y	CT( S	T T	:C :	720 170
7:	21 A 71 I	CA	GA( E	JAC T	CA M	. <b>T</b> (	GC(	CCA S	.GC2	AG R	AG V	TC	GT(	etg C	C 2	ATC M	AT I	CG.	AA?	IG W	GCC P	AG E	AGC H	'A '	rcc P	GA.	aca <i>i</i> K	AG (	780 190
7 1	81 <i>I</i> 91 :	ATT I	TA' Y	rg <i>i</i> E	AGA K	A	AG'	rg1	TAC	CA H	CA I	TC	TG' C	rgt V	G	AC' T	rgi V	GC L	TG	ат І	CT/ Y	CT F	TCC I	ET	CCC P	CC L	TGC:	rg	840 210
8	41 ( 11 )	GTG V	AT I	TG( G	GC1	C A C	TG A	CAT	rac Y	AC T	CC	STA J	.GT	GG(	3A	AT I	CA(	CAC	TA	T G W	GG A	CCA S	GT(	Ga E	GA!	rcc P	CCG	GG	90 23
9	01	GAC	CTC	CT	CT	G #	ACC R	:GC'	TAC Y	CA H	C	GAG E	SCA Q	AG! V	rc	TC S	TG(	CC <i>I</i> I	\AG	CC R	CA K	AGC 7	TG	GT V	CA K	AAA M	ltga M 1	TG	96 25

#### FIG. 9B

								•			•				•		3 N M/C		CMMC	יריייר	·	1020
961 251				GG V		TGC C	T T	F	CGC(	I I	CTGC C	TG(	GCT( L	GCC(	F	TCCA( H	I	F	F	L	L	270
1021 271						CCC2 P		TCT L	CTA Y	CCT L	GAAG K	AA K	GTT F	TAT I	cc Q	agca Q	GGT(	CTA Y	CCT(	GGC( A	EATC I	1080 290
1081 291						CAT( M	GAG S	CTC S	CAC T	CAT M	GTAC Y	AA N	CCC P	CAT	CA I	TCTA Y	CTG C	CTG C	CCT	CAA' N	rgac D	1140 310
1141 311							CTT F	CAA K	GCA H	A.TGC	CTTC F	CC	GTC C	CTG	ECC P	CCTT F	'CAT I	CAG S	CGC A	ccc G	CGAC D	1200 330
1201 331	TA Y	TG/ E	G	GGC I	T		TAA M	GAA K	ATC S	CCAC T	CCCGG R	т? Ч	ATC1 L	rcc <i>i</i> Q	AGA T	CCC#	G G	CAG S	TGI V	GTA Y	CAAA K	1260 350
	GI V			GC(		GGA E	GAC T	CAC T	CAT	rct( S	CCAC?	G' V	TGG' V	rgg( G	EGG A	CCC	ACGA E	AGGA E	GG <i>I</i>	AGCC P	: AGAG E	1320 370
1321 371	. G#	CG G	GCC P	cc.	A <i>I</i> K	AGG( A	CAC T	CACC P	CT S	CGT S	CCCT( L	G G D	ACC L	TGA T	CCT S	CCA.	ACT( C	GCTC S	TTC S	CACC R	EAAGT S	1380 390
	L GI L D				A ( T	CCA!	TGA T	CAGI E	A GA S	GCT F	TCAG	C I	TCT S	CCT S	CC? N	ATG V i	TGC'	rctc s	CT.	AGG	CCACI	1440 407
144	1 G	GGC	CTI	rtg	G	CAG	GTG	CAG	c cc	CCA	CTGC	· C I	TTT	SACC	TG	C CTC	CCT	TCA	r GC	ATG	GAAA!	r 1500
150	1 т	cco	TTC	CAT	C	TGG	AAC	CAT:	C AG	AAS	ACACO	C 1	CAC	CACI	GG	G ACT	TGC	AAA	A AG	GGT	CAGT	A 1560
156	1 T	GG	GTT.	AGC	GG	AAA	AC	\TTC	C A	rcci	rtgac	ST (	CAA	AAA?	ATC'	T CA	\TTC	TTC	C CI	PATC	TTTG	C 1620
162	1 0	AC	CCT	CA?	rg	CTG	TG	rgac	T C	AAA	CCAA	· T	CAC'	TGA	ACT	T TG	CTGA	AGCC	TGT	AA1	ATAA	A 1680
168	1 <i>P</i>	\GG'	TCG	GA	cc	AGC	CTT	rtcc	TC	AAG.	AGCC	CA	ATG	CAT'	rcc	A TT	TCT	GAA	G T	GACI	TTGG	C 1740
174	11 7	rgc	ATG	CG.	AG	TG	CTC.	ATTI	C A	GGA	TG 1	766										

## FIG. 10A

1 AATTCAGAGC CACCGCGGC AGGCGGCAG TGCATCCAGA AGCGTTTATA TTCTGAGCGC 60	
61 CAGTTCAGCT TTCAAAAAGA GTGCTGCCCA TAAAAAGCCT TCCACCCTCC TGTCTGCTTT 120	
121 AGAAGGACCC TGAGCCCAG GCGCCAGCCA CAGGACTCTG CTGCAGAGGG GGGTTGTGTA 180	
181 CAGATAGTAG GCTTTACGCC TAGCTTCGAA ATGGATAACG TCCTCCCGGT GGACTCAGAC 240 M D N V L P V D S D 10	
241 CTCTCCCCAA ACATCTCCAC TAACACCTCG GAACCCAATC AGTTCGTGCA ACCAGCCTGG 300 11 L S P N I S T N T S E P N Q F V Q P A W 30	
301 CAAATTGTCC TTTGGGCAGC TGCCTACACG GTCATTGTGG TGACCTCTGT GGTGGGCAAC 360 31 Q I V L W A A A Y T V I V V T S V V G N 50	
361 GTGGTAGTGA TGTGGATCAT CTTAGCCCAC AAAAGAATGA GGACAGTGAC GAACTATTTT 420 51 V V M W I I L A H K R M R T V T N Y F 70	
421 CTGGTGAACC TGGCCTTCGC GGAGGCCTCC ATGGCTGCAT TCAATACAGT GGTGAACTTC 480 71 L V N L A F A E A S M A A F N T V V N F 90	
481 ACCTATGCTG TCCACAACGA ATGGTACTAC GGCCTGTTCT ACTGCAAGTT CCACAACTTC 540 91 T Y A V H N E W Y Y G L F Y C K F H N F 110	
541 TTTCCCATCG CCGCTGTCTT CGCCAGTATC TACTCCATGA CGGCTGTGGC CTTTGATAGG 600 111 F P I A A V F A S I Y S M T A V A F D R 130	
601 TACATGGCCA TCATACATCC CCTCCAGCCC CGGCTGTCAG CCACAGCCAC CAAAGTGGTC 660	ı
661 ATCTGTGTCA TCTGGGTCCT GGCTCTCCTG CTGGCCTTCC CCCAGGGCTA CTACTCAACC 720	)
721 ACAGAGACCA TGCCCAGCAG AGTCGTGTGC ATGATCGAAT GGCCAGAGCA TCCGAACAAG 780	)
781 ATTTATGAGA AAGTGTACCA CATCTGTGTG ACTGTGCTGA TCTACTTCCT CCCCCTGCTG 84 191 I Y E K V Y H I C V T V L I Y F L P L L 21	0
841 GTGATTGGCT ATGCATACAC CGTAGTGGGA ATCACACTAT GGGCCAGTGA GATCCCCGGG 90 211 V I G Y A Y T V V G I T L W A S E I P G 23	0 0
901 GACTCCTCTG ACCGCTACCA CGAGCCAAGTC TCTGCCAAGC GCAAGGTGGT CAAAATGATG 96	0

## FIG. 10B

							_							•			•			•	
061	N MOO	n/m/	ാവസ	20. (	ጥርጥር	~ \ \ \	்ருமு	CGCC	CATO	CTGC	TGO	CTC	3CCC	CT C	CCAC	TAC	CTT	CTTC	CTC	CTG	1020
301	ATT	.GI	-91	33	1010	TT.	E.	Δ.	T	С	W	L	P	F	H	I	F	F	L	L	270
251	1	٧	٧	٧	C	_	F	•	-	•	••	_	_								
																	_				
				•			•					~mm	m x m/	~~	אככאנ	2/2/17/2	-π-Σ	ССТУ	300	TATC	1080
021	CC	CTA	CAT	ÇA	ACCC	AGA	TCT	CTA	CCT	GAAG	AA	۳۱۳۱۰ س	TAT	· ·	AGCA	3G I 1	V	T	, ,	CATC	290
271	P	Y	I	N	P	D	L	Y	L	K	K	F	I	Q	Q	V	¥	1.0	A	_	200
							_										•			•	
001	3 m	~m~	CCE	·	ССАТ	CAC	י ביים	CAC	САТ	GTAC	AA	ccc	CAT	CA	TCTA	CTG	CTG	CCT	CAA'	rgac D	1140
1081	AT	GTG	GCT	GG	CCAI	GAG		m	M	v	N	p	Т	т	Y	С	С	L	N	D	310
291	М	W	L	A	M	5	3	-	M	•		•	_	_	_						
							•			•				•				000	~~~	- C N C	1200
1141	AG	GTT	CCG	TC	TGGG	CTI	CAA	GCA	TGC	CTTC	CG	GTG	CTG	CC	CCTT	CAT	CAG	ريور	CGG	CGAC	220
311	R	F	R	L	G	F	K	H	Α	F	R	С	С	P	F	I	S	A	G	ט	330
711	••	•		_	_																
				•							m 2	men	יככז	CA	CCCA	രവ	CAG	TGT	GTA	CAAA	1260 350
1201	TA	TG	\GGG	GC:	TGG	\AA'	rgaa	ATC	CAC	عادات الم	12				000	.000		37	v	K	350
331	Y	E	G	L	E	M	K	S	T	R	Y	ינ	Q	T	Q	G	3	٧	•	•	
					•																
																	•			•	
1061	CIT.	0020			TCC	ACA	CAC	CAT	гсто	CACA	G7	rggi	rgge	GG.	CCCI	<b>LCG</b>	<b>IGGA</b>	GG	recc	AGAG	1320 370
1701	G	rCA(	<i>-</i>	<del>-</del>	100	, wo	m	т.		m	37	V	G	A	H	E	E	E	P	E	370
351	V	S	R	L	E	Т	T		3	T	٧	•	•			_					
											•			•							1200
1321	GZ	ACG	GCC	CCA	AGG	CCA	CACC	CT	CAT	CCCT	3 G2	ACC'	rga(	CCT	CCA	ACTO	CTC	Tare	ACC	AAGT	1380
271	. D	c	ם	K	Δ	т	P	s	S	L	D	L	$\mathbf{T}$	S	N	С	S	S	R	S	390
3/1	. D	G	-		•	•	-	_													
														_							
				•					~~~	marc	. m	m/cm	~~സ	دري	ΔTG	TGC	тстс	CT	AGG	CACA	1440
1381	L G	ACT	CCA	AGA	CCA	TGA	CAG	A GA	GCT.	TCAG	~ <u> </u>	101	CCI	~~~	v	- UU		*			407
391	L D	S	K	T	M	T	E	S	F	S	F	S	S	N	V		3				
				_														•		•	4-00
144		~~~		ጥርር	י ראכ	CTC	CAG	c cc	CCA	CTGC	СТ	TTG	ACC	TGC	CTC	CCT	TCA?	r GC	ATG	GAAAT	1500
144.	L G	ناجات	CII	160	CAC	GIC					-										
																		_			
				•	•			•					13 CM		, ACT	TCC	מממ	. אם	CCT	CAGTA	1560
150	1 T	CCC	TTC	'ATC	TGC	CAAC	CAT	C AG	AAA	CACC	CI	CAC	ACT	GGG	, ACI	100		1 110	-		1560
														•				•	_		
156	1 11	~~~	ב שישינ	CCC	ממבי	ACZ	እጥጥC	C AI	ניססי	rTGAG	T C	:AA	AAA	TCI	CAA	OTT.	TTC	CCI	ATC	TTTG	1620
136	_ 1	.00	31 15	2000	, ,,,,,																
					•			•			· .		n		n mcc	יתיבו	יכיכי	Т. С.Т	מממי	ATAA	1680
162	1 (	CAC	CCTC	CAT	G CT	GTG:	rgac	T C	AAA(	CAAP	ZI. C	.AC'	LGA	10 1.	1.00	. I GP		_			1680
																		•			
160	1 1		יירכי	בארי	- C AC	مششء	TTCC	T C	AAG	AGCC	CA A	ATG(	CATT	rccz	A TTT	CTC	GAA	G TC	CAC	TTGG	1740
TOR	1 4	200		المعد	C AG																
					•			•													
454				~~~	$\sim mc$		שתחת ע	ים אי	ימביבי	ጥር 11	/hh										

#### FIG. 11A

1	AG	TC	rgc	AC	· r (	GA(	GCI	'GC(	T C	GTG	ACC	CAGA	AG	TTI	rgg.	AGT	C	CGCT	GAC	GT	CGCC	GCC	CAG	60
61 1	AT M	'GG' A	CCI	cc.	A. ( R	GGC' L	TG#	ACC(	CT (	GCTG L	GAC(	CCTC L	CI L	GC: L	rgc'	TGC L	T	GCTG L	GCT A	G G	GGA!	ragi R	AGCC A	120 20
121 21	T(S	CCT S	CAZ 1	AAT	C ·	CAA N	TA.	SCT.	AC (	CAG( S	CTC( S	CAGC S	TO S	ccci Q	AGG D	ATC	; C	AGAC E	GAGI S	TT L	GCA: Q	AGA( D	CAGA R	180 40
181 41	G	GCG E	AA )	GGG G	A K	AGG V	TC	GCA A	AC T	AAC T	AGT V	TATC	T T	CCA K	AGA M	TGC I I	: I	'ATT(	CGT: V	IGA E	ACC P	CAT	CCTG L	240 60
241 61										AAC T	CAA N	CTC# S	A A	CAA T	CCF	ITA S	C C	CAGC( A	CAC(	CAA K	AAT I	AAC T	agct A	300 80
301 81	A	ATA	CC	ACI T	G D	ATC I	SAA E	.CCC	AC T	CAC T	aca Q	ACC(	С А Т	CCA T	CAC	GAGO	C (	CCAC T	CAC T	CCA Q	ACC P	CAC T	CATC I	360 100
361 101							CCA P	ACT T	TAC T	CCA Q	.GCT	P	A A T	CAC	AT'	rct(	C ( P	CTAC T	CCA Q	GCC P	CAC	TAC T	TGGG G	420 120
421 121	. 1	rcc'	rtc F	TG(	CC P	CA	GG <i>I</i> G	ACC'	rgt V	TAC T	CTCT L	CTG C	C I	CTC	GAC	TTG L	G E	AGAG S	TCA H	TTC S	AAC T	CAGI E	A A	480 140
481 141	L (	etg J	TTC L	G G	GG D	АТ	GCT A	rtt L	GGT V	AG#	ATT'	rctc s	C (	CTG/	aag K	CTC L	T Y	ACC <i>I</i> H	ACGC	CTT F	CTC S	CAG( A	TAAC M	3 540 160
		aag K					AC T	CAA N	CAT M	GG(	CCT F	TTTC S	C (	CCA' P	TTC F	AGC S	A I	TCG( A	CCA( S	CCI L	CC.	ATT T	CCA( Q	G 600 180
		GTC V							GCA Q			CCA#		aca T	AAC N	CTG L	G E	AGA(	GCA'	rcci L	CT S	CTT. Y	ACCC P	C 660 200
66 20	1	AAC K	GA D	CTI F	CA	CC	CTG C	TGI V	CCA H	CC Q	AGG A	CCCI	rg .	AAG K	GG(	TTC F	· CA T	CGA	CCA. K	AAG( G	G TG V	TCA T	CCTC	A 720 220
72 22	1	GT( V	CTC S	TC? Q	AG <i>I</i>	A T(	CTT F	H H	ACAC S	G CC	CAG	SACC'	IG	GCC A	AT!	AAG( R	GG D	ACA T	CCT F	TTGʻ V	I GA N	ATG A	CCTC	T 780 240
78 24	11	CG( R	GAC T	CC'	rg:	P AG Y	CAG S	CA( S	GCA(	G CC E	CCI	AGAG R V	TC	CT# L	AAG S	CAA( N	CA N	ACA S	GTG	ACG A	C C#	LACT	TGG# . E	G 840 260
84 26	11 51	CT L	CA7	CA. N	AC.	A C	CTC W	GG'	TGG A	C C2	AAGI K 1	AACA N T	cc	AA( N	CAA N	CAA K	GA I	TCA	GCC F	GGC L	T GO	CTAC	GACA(	ST 900 280
9(	01 81	CT L	GC(	CT	CC	GA D	AT. T	CCC R	GCC	T T(	GTC	CTCC L L	TC	AA' N	TGC A	TAT I	CT Y	ACC	TG#	AGTG	ic ci	AAG:	rggai N K	AG 960 300

#### FIG. 11B

				_				_										•			•	
961 301				rg . D			AAG K			CAGI R			ACC P		TC H	ACT" F	rca <i>r</i> K	AAA N	CTC S	AGT V	TATA I	1020 320
1021 321					TGA M	TG:	TAA N	'AG S	CAA(	GAA K	GTAC Y	CC'	TGT V	GGC A	CCC H	ATT F	TCAT I	TTGA D	CCA Q	AAC T	TTTG L	1080 340
1081 341	AA. K	AGC( A	CAA K	GG V	TGG G	GG	CAG Q	ECT L	GCA Q	GCT L	CTCC S	CA H	CAA N	TCI L	GA S	GTT L	TGG! V	IGAT I	CCI	GGT V	ACCC P	1140 360
11 <b>4</b> 1 361	CA Q	gaa N	CCT L	GA K	AAC H	AT I	CGI R	TCT L	TGA E	AGA D	CATG M	GA E	ACA Q	A A	CTC L	TCA S	GCC	CTTC S	TGT V	TTT F	CAAG K	1200 380
1201 381							.CT(		GAT M	GTC S	CAAG K	TI F	CC# Q	AGC(	CCA T	CTC	TCC'	TAAC T	ACT L	P P	CCCGC R	1260 400
1261 401								CCA Q			GCTC L	TC S	CAAC I	rca' M	TGG E	AGA	AAT ( L	TGGA E	AT'	rct7 F	rcgat D	1320 420
		TTTC S				CTI L	AA7 N	CCT L	GT(	TG( G	GGCTC L	A AC	CAG E	AGG D	ACC P	CAC	SATC L	TTCA Q	. GG V	TTT( S	CTGCG A	1380 440
		rgc <i>i</i> Q				AC? T	AGT V	GCT L	GG2 E	AAC' L	rgac <i>i</i> T	A G	AGA T	CTG G	GGG V	TG	GAGO E A	SCGG(	TG A	CAG A	CCTCC S	1440 460
1441 461	1 G( 1 A	CCA?	rct S	CTG V	TG	GC( A	CCG R	CAC T	CC'	rgc' L	TGGT(	C T	TTG E	AAG V	TGC	AG	CAGO Q I	CCCT	r cc l	TCT F	TCGTG V	1500 480
150: 48:	1 C' 1 L	TCT W	GGG D	ACC	AG	CA Q	GCA H	CAA K	GT F	TCC P	CTGT V	C T F	TCA M	TGC I	GGG	CGA R	GTA!	ratg: Y D	A CC	CCA R	GGGCC A	: 1560 500
156	1 T	GAG	ACC	TGC	C AG	GA	TCI	AGGI	TA	GGG	CGAG	C G	CTA	CCI	CTC	C CA	.GCC	rcag	C TC	CTCA	GTTGC	1620
162	1 A	.GCC	CTG	CTC	G CI	rgc	CTC	CODE	r GG	ACI	TGCC	c c	TGC	CAC	CCT	C CI	'GCC'	TCAG	G T	TCC	GCTAT	r 1680
168	1 C	CAC	CAA	AAC	3 GC	3CT	CC.	rga(	G GG	TCT	GGGC	A A	\GG(	GAC	CTG	C TI	CTA	TTAG	c c	CTTC	TCCAT	r 1740
174	11 6	GCC	CTC	GC2	A T	3CI	CT	CCA	A AC	CAC	CTTTI	· T	CAC	GCT"	TTC'	T CI	TAGT	TCAA	GT	rcac	CAGA	C 1800
180	)1 1	TT?	LAT.	LAT.	A A	AAC	CT	GAC	A G	ACCZ	AT 18	326										

## FIG. 12A

1	A	STC	TG	CA	CT	GG.	AGC	TGC	CT	GGT	GACC	CAGA	AG	TT.	rgg	AGT	C	CGC	rgac	CGT	CGCC	GCC	CAG	60
61 1	A' M	rgc A	CC	TC S	CA R	GG	CTG L	ACC T	CT L	GCT( L	GAC( T	CCTC L	CI	rgc'	TGC L	TGC	T	GCT(	GGC! A	TGG G	GGAT D	raga R	A A	120 20
121 21	T	CCI	rca S	AA N	TC P	CA	raa N	GCT A	rac T	CAG S	CTC S	CAGC S	T(	CCC Q	AGC I	ATC	C C	CAGA E	GAG' S	TTT L	GCAI Q	AGA( D	AGA R	180 40
181 41	G	GC(	GA <i>I</i> E	G G	GA K	ΑG	GT( V	GCI A	AAC T	AAC T	AGT V	TATC I	T T	CCA K	AGA	ATGO 1 I	C 1	TATT F	CGT V	TGA E	ACC(	CAT(	CCTG L	240 60
241 61	G	AG	GTT V	rtc S	CA S	GC	CTT( L	GCC( P	GAC T	AAC T	CAA N	CTC# S	A A	CAA I	CCI	TAAT	r ( s	CAGC A	CAC T	CAA K	TAA I	AAC T	AGCT A	300 80
301 81	1	LAT.	AC( T	CAC T	TG D	A?	rga. E	ACC P	CAC T	CAC T	ACA Q	ACCC P	C A T	CC.	CAC	GAG E	C (	CCAC T	CAC T	CCA Q	ACC P	CAC T	CATC I	360 100
361 101	. (	CAA Q	CC P	CAC T	ccc Q	: A	ACC P	AAC T	TAC T	CC# Q	AGCI L	P	А А Т	CAC	TAE O	TCT S	C P	CTAC T	CCC# Q	GCC P	CAC	TAC T	TGGG G	420 120
421 121	. :	rcc s	TT F	CT(	GCC F	C.	AGG G	ACC P	TGT V	TAC T	CTCT L	CTG C	C I	CTC	GAC D	TTG L	G E	AGA( S	STC# H	ATTC S	AAC T	AGA E	GGCC A	480 140
481 141							TGC A	TTI L	rggi V	AG D	ATT? F	rctc s	c c	CTG.	aag K	CTC L	· T Y	ACC.	ACG( A	CCTI F	CTC S	A A	CAATG M	540 160
54: 16:	l l	AAC K	SA.F K	v V	TG(	Ga E	GAC T	CAJ N	ACAT M	GG A	CCT F	TTTC S	C (	CCA P	TTC F	CAGO S	CA I	TCG A	CCA S	GCCI L	CC.	OATT T	CCAG	600 180
60: 18:	1	GT( V	CCI	rgc L	TC(	G G	GG( A	CTG( G	GGC <i>I</i> Q	A GA N	ACA T	CCAA K	AA i	ACA T	AAC N	CCT( L	E	AGA S	GCA I	TCCT L	CT' S	TTI Y	ACCC(	200
66 20	1	AA K	GGZ D	ACT E	TC.	A ( T	CTC	GTG V	TCCI H	A CC	AGG	CCCI	rg	AAG K	GG(	CTT( F	CA T	CGA	CCA K	AAG(	G TG V	TCA(	CCTC S	720 220
72 22	1	GT V	CT S	CT(	CAG Q	A :	rct F	TCC H	ACA S	G CC	CAG	ACC:	rg	GCC A	I	AAG R	GG D	ACA T	CCT	TTGʻ V	T GA N	ATG A	CCTC' S	r 780 240
78 24	1	CG R	GA T	CC	CTG L	· Y	ACA S	GCA S	GCA S	G CC	CCC#	AGAG' R V	TC	CTI L	AAG S	CAA N	CA N	ACA	AGTO	ACG A	C CA	ACT L	TGGA E	G 840 260
84 26	11 51	CI	CA I	TC	AAC N	CA T	CCI W	GGG IV	STGG 7 A	C C2	AAGI K I	AACA V T	cc	AA N	CAA N	CAA K	GA I	TC	AGC( S I	CGGC R L	T GC	TAG	ACAG S	т 90 28
9( 28	)1 31	C1	rgc I	CC	TC(	CG D	ATA L	ACCO	CGCC R I	T T	GTC	CTCC L L	TC	AA N	TGC A	rat: I	CI Y	ACC	CTG:	AGTG S A	C CZ	LAGI V	GGAA I K	G 96 30

#### FIG. 12B

961 301	AC. T	AA( T	:A:	rT7 F	rg D	ΑT	CC(	CAA( K	SAA K	AAC T	CAG. R	aatg M	GA E	ACC P	CTT F	TC H	AC'	rtc F	AAA K	AA N	CTC. S	AGT" V	TATA I	1020 320
1021 321	AA K	lag V	TG	CC( P	CA M	TG	AT( M	GAA' N	TAG S	CAA K	gaa K	GTAC Y	CC P	TGT V	GGC A	CC H	ΑТ	TTC F	I	IGA D	CCA Q	AAC T	TTTG L	1080 340
1081 341	A <i>F</i> K	lag A	CC	AA K	GG V	TC	G G	GCA Q	GCT L	GCA Q	GCI L	CTCC S	C CI	ACAA N	L L	GA S	GT	TTC L	GT( V	GAT I	CCI	GGT V	ACCC P	1140 360
1141 361	C2	AGA	.ac	CT L	GA K	Ai	ACA H	TCG R	TCT L	TG# E	AG# D	ACATO M	G G	AACI Q	AGG( A	CTC L	TC	CAG S	CCC P	TTC S	TGT V	rtt1 F	CAAG K	1200 380
1201 381	. G	CCI	\T(	CAT M	'GG E	A	GAA K	ACI L	GGA E	GA'	rgt( S	CCAA(	G T F	TCC: Q	AGC(	CCA T	. Cr	rct L	CCT L	AAC T	AC:	P P	CCCGC R	1260 400
1261 401	l A L I	TC:	A.A.: K	AGT V	GD1 T	. c	GAC T	CA(	GTCA Q	GG.	ATA M	TGCT L	C T	CAA	TCA M	TGC E	; A	gaa K	ATI L	GGA E	AT'	TCT' F	TCGAT D	1320 420
132 42	1 T	TT	TC S	TT. Y	OTA I	3 A O	.CC'	ATT N	ACCT L	r GT C	GTG G	GGCT	IG A	CAG	AGG	ACC	C C	AGA D	TC? L	TCA Q	. GG V	TTT S	CTGC(	3 1380 440
138 44	1 <i>7</i> 1 N	ATG	CA Q	.GC H	AC(	C # Q	AGA T	CAG V	TGC'	r GG	AAC I	TGAC	CA (	SAGA	CTC	GG(	G I V	'GG! E	AGG( A	CGGC A	TG A	CAG	CCTC	C 1440 460
144 46	1 (	GCC A	ra: I	CT S	'CT'	G : V	rgg A	CCC	GCA T	C CC	CTG(	CTGG:	rc :	TTT(	SAAC E 7	etg J	C <i>1</i> Q	AGC.	AGC P	CCT:	r cc r	CTCI	TCGT V	G 1500 480
150 48	)1 ( 31 )	CT(	OTC W	GGG I	SAC	C Q	AGC	AGC	CACA	A G'	rtc F	CCTG' P V	TC	TTC.	ATG(	GGG G	C ( R	GAG V	TAT Y	ATG.	A CO	CCC2	AGGGC R A	C 1560 500
150	51	TG	AG.	ACC	CTG	EC	AGO	TAE	CAGG	FT T.	AGG	GCGA	.GC	GCT	ACC	TCI	C	CAG	CCI	CAG	C T	CTC.	AGTT	SC 1620
16	21	AG	CC	CT	GCI	rg	CT	GCC	TGC	CT G	GAC	TTGC	CC	CTG	CCA	.cci	rc	CTG	CC?	CAG	G T	GTC	CGCT	AT 1680
16	81	cc	AC	CA	AA	AG	GG	CTC	CTG	AG G	GTC	TGGG	CA	AGG	GAC	CT(	3C	TTC	TA!	r <b>TA</b> C	GC C	CTT	CTCC.	AT 1740
17	41	GG	cc	CT	GC	CA	ТG	CTC	TCC	AA A	\CC#	CTT	PTT	GCZ	AGCI	TT	CT	CT	AGT"	TCAJ	AG I	TCA	\CCAG	AC 1800
18	01	TC	T	AT.	AA'	TA	AA	ACC	TGA	CA (	BAC	CAT :	182	6										

#### FIG. 13A

1	ΑG	TC	TGC	CAC	T (	GGI	'GC	rgc	CT	GGT	GAC	CA	GA.	AG'	ГТT	GGA	GT	CC	GC1	GAC	GT	CG	CCG	ccc	AG (	60
61 1	AT M	GG A	CC!	rcc	A R	GG(	CTG.	ACC T	CT L	GCT L	GA( T	CCC	TC	CT( L	GCT L	GCI L	rgc L	TO	CTC L	GCT A	TGG G	GG. D	ATA R	GAC	SCC	120 20
121 21	T(S	CCI	CA	AAT N	rC P	CA.	aat N	GCI A	TAC T	CA(	SCT S	CCA S	GC	TC S	CC# Q	GG: D	ATC P	CZ	AGA( E	GAG' S	PTT L	GC	AAC I	GACI	AGA R	180 40
181 <b>4</b> 1	G G	GC(	eaa E	.GG( G	GA K	AG	GTC	:GC2 A	AAC T	AA T	CAG V	TT?	ATC	TC S	CAI K	AGA M	TGC L	T	ATT F	CG <b>C</b>	TGA E	AC	CCI	ATC(	CTG L	240 60
241 61	G	AG(	STI V	TC S	CA S	GC	TTC L	GC(	GAC T	AA T	CCA N	AC:	rca s	AC T	AAC T	CCA N	ATT	C	AGC A	CAC T	CAA K	. <b>A</b> Z	ATA I	ACA T	GCT A	300 80
301 81	. A	AT.	ACC T	CAC T	TG D	ΓA	GA E	ACC P	CAC T	CA T	CAC	CAA Q	CCC P	A(	CCA T	CAG E	AGC	: C	CAC T	CAC T	CCA Q	. A(	CCC. P	ACC T	ATC I	360 100
361 101	L C	CAA Q	CC( P	CAC T	CC Q	AI	ACC.	AAC T	TAC T	: cc	AG(	CTC L	CCA P	A. T	CAG	ATT	rct(	C C P	TAC T	CCZ Q	AGCC P	C C	ACT T	ACT T	reee e	420 120
42: 12:	1 : 1 :	rcc s	TT F	CTC C	GCC F	c C	AGG G	ACC P	CTGI V	T. T.	ACT r	CTC L	TGC C	: T S	CTC	SAC'	rtg L	G 1 E	AGA( S	etc: H	ATT(	C A	ACA T	GA( E	GCC A	480 140
48 14	1 (	GT( V	TT L	GG( G	GGC I	3 A 0	TGC A	TT: L	rgg: V	P A(	GAT D	TTC F	TCC S	C C	TG!	AAG K	CTC L	Т 2 Ү	ACC. H	ACG A	CCT' F	r c	TC! S	AGC: A	aatg M	540 160
54 16	1	AA( K	GAA K	.GGʻ	TG(	3 A E	GAC T	CA. N	ACA' M	TG	GCC A	TT.	rtc S	C C I	CA'	rtc F	AGC S	!A I	TCG A	CCA S	GCC L	Т (	CCT'	TAC T	CCAG Q	600 180
				rgc L		G G	GG( A	CTG G	GGC Q	A G	AAC N	CAC T	CAA. K	A 1	ACA r	AAC N	CTG L	G E	AGA S	GCA	TCC	T (	CTC S	TTA Y	P.	200
66 20	51 01	AA K	GGZ D	ACT F	TC.	A (	CT	GTG V	TCC	A C	CA( Q	GGC A	CCT L	G I	aag K	GG(	TTC F	CA T	CGA	CCI	AAAC C C	G '	TGT V	CAC T	CTC S	A 720 220
7: 2:	21 21	GI V	CT S	CTC	CAG	A' I	rct F	TCC I	CACA	AG (	P	AGA D	CCT L	· G	GCC A	ATA I	AAG( R	GG D	ACA	ACC:	PTT( F \	ST V	gaa N	TG( A	CCTC' S	T 780 240
7 2	81 41	CC R	GA T	.CC(	CTC L	· T Y	ACA S	.GCI	AGCZ S S	AG ( S	CCC P	CAG R	PAGT V	·	CT! L	AAG S	CAA N	CA N	AC	AGT S	GAC	GC A	CAA N	ACT'	rgga E	G 840 260
8	41 61	C'	CP I	TC	AA( N	CA T	CCI	rgg 1	GTG V	GC A	CAA K	GAJ N	ACA( T	CC	AA( N	CAA N	CAA K	GA I	TC.	AGC S	CGG R	CT L	GC'	rag. D	ACAG S	FT 900 280
9	01	. C	TGC	CCC	TC(	CG	ATZ	ACC r	CGC R	CT L	TGI V	rcc' L	rcc' L	TC	AA' N	TGC A	TAT I	CT Y	AC	CTG L	AGT S	GC A	CA. K	agt W	GGAI	AG 96 30

# FIG. 13B

961	L A	CA	AC#	TT	TG	ΑT	ccc	AA	GAA	AAC	CAG	AATG M	G.	AAC	CC	TTI F	rc :	ACT F	TC	AAA K	AA N	CTC	AGT'	TATA I	1020 320
									K												•			•	
L02: 32:	1 A 1 K	AA C	GT( V	GCC P	CA M	TG	ATC M	GAA' N	TAG S	CAA K	GAA K	GTAC Y	C C	CTC	J J	GC( A	CC H	ATT F	TC.	ATI I	rga D	CCA Q	AAC T	TTTG L	1080 340
108 34	1 A 1 K	LA.A C	GC A	CAA K	.gg V	T	G G	GCA Q	GCT L	GCA Q	GCT L	CTC S	C C H	AC	raa N	rct ⁽	GA S	GTT I	TG	GT( V	GAT I	CCT	GGT V	ACCC P	1140 360
11 <b>4</b> 36	1 (	CAC Q	AA N	CCI	GA K	A	ACA' H	TCG R	TCT L	TGA E	AGA D	CATO M	G (	SAA E	CAC Q	GGC A	TC L	TC#	AGC S	P P	TTC S	TGT V	TTT F	CAAG K	1200 380
120 38	1 (	GC( A	CAT I	CAT M	rgg E	A	GAA K	ACI L	IGGA E	GAT M	GTC S	CAA K	G :	rtc F	CA( Q	GCC P	CA T	CTC	CTC L	CT. L	AAC T	ACT L	P P	CCCGC R	1260 <b>4</b> 00
126 40	1 2	AT(	CAA K	AG' V	TGA T	c :	GAC T	CAC S	GCCA Q	GG2	TATA M	rgct L	C 1	TCA S	AT I	CAI M	E	AG.	AA? K	\TT L	GGA E	AT:	rct: F	ICGAT D	1320 420
132	21 21	TT F	TT(	TT. Y	OTA I	3 A O	L CCT	TA. N	ACCT L	GT(	GTG(	GGCI L	G	AC <i>I</i> T	AGA E	.GG <i>I</i>	ACC P	CA	GA' D	rct L	TCA Q	. GG' V	TTT( S	CTGCG A	1380 440
138	81 41	AT M	GCZ Q	AGC H	AC(	C # Q	AGA( T	CAG V	TGCT L	GG E	AAC L	TGAC T	CA	GA( E	SAC T	TG( G	GGG V	TG	GA E	GGC A	GGC A	TG A	CAG A	CCTC(	1440 460
14	41 61	GC A	CA'	TCT S	CT	G:T	rgg: A	CCC R	GCAC	C CC L	TGC L	TGG: V	rc	TT F	TG <i>I</i> E	AAG V	TGC	: AG	CA Q	GC( P	CCTI F	C CC	TCT F	TCGT	3 1500 480
15 4	01 81	C.I	TOT W	GGC I	SAC O	C 2	AGC. Q	AGC H	ACAZ I K	A GI	TCC F	CTG'	TC	TT F	CA: M	rgg G	GGC F	C G# R	AGI V	'ATA' Y	ATGI D	A CC	CCA P	GGGC A	C 1560 500
15	61	T	GAG	AC	CTG	· C	AGG	ATC	CAGG'	T T?	\GGG	GCGA	GC	GC	AT	CCI	CTC	c cz	AGC	CT	CAG	C TO	CTCI	\GTTG	C 1620
																									T 1680
16	81	C	CAC	CA	AAA	/G	GGC	TC	CTGA	G G	GTC:	rggg	ca	AC	GG	ACC	TG	C T	TC:	rat	TAG	c c	CTT	CTCCA	.T 1740
17	741	G	GC(	CT	GC(	CA	TGC	CTC'	TCCA	A A	CCA	CTTI	TT	GC	CAG	CT?	TC	ТС	TA	GTI	CAA	G T	TCA	CCAGA	C 1800
		_							חר א ר	'A G	አርር	ልጥ 1	82	6											

#### FIG. 14A

1	AGTO	TGC	ACT	G	GAGC	TGC	CT	GGTG	ACC	AGA	AGI	TTC	GAG	T	CCGC'	TGA	CGT	CGCC	:GCC	CAG	60
61 1	ATG(	SCCI	CCA R	. G	GCTG L	ACC T	CT L	GCTC L	SACC T	CTC L	CTC L	CTC L	CTG L	E L	TGCT L	GGC' A	IGG G	GGAT D	'AGA R	GCC A	120 20
121 21	TCC:	rca. 1 e	LATC	: C	raaa N	GCT A	AC T	CAGO S	CTCC S	AGC S	TCC S	CCAC Q	GAT D	P	CAGA E	GAG S	TTT L	GCAZ Q	AGAC D	CAGA R	180 40
181 41	GGC(	GAA( E (	EGGA	A	GGT(	CGCA A	AAC T	AACI T	AGTT V	TATC	TCC S	CAA( K	GATO M	EC L	TATT F	CGT V	TGA E	ACC(	CATO I	CCTG L	240 60
241 61	GAG	GTT!	CCA S S	A G	CTT(	GCC0	AC T	AAC(	CAAC N	CTCA S	ACZ T	AAC( T	CAAC N	TT S	CAGC A	CAC T	CAA K	AAT.		AGCT A	300 80
301 81	AAT. N	ACCI	ACTO	3 A O	TGAZ E	ACC(	CAC T	CAC:	ACAI Q	ACCC P	AC T	CAC. T	AGA( E	GC P	CCAC	CAC T	CCA Q	ACC P	CAC( T	CATC I	360 100
361 101	CAA Q	CCC	ACCO F (	C P Q	ACC P	AAC'	rac T	CCA Q	GCT(	CCCA P	AC.	AGA' D	TTC'	rc P	CTAC T	CCA Q	GCC P	CAC T	TAC' T	rggg G	420 120
421 121	TCC	TTC F	rgc(	C C P	CAGG. G	ACC' P	TGT V	TAC T	TCT ⁽	CTGC C	TC S	TGA D	CTT L	GG E	AGA(	GTC# H	TTC S	AAC T	AGA E	GGCC A	480 140
481 141	GTG V	TTG L	GGG(	G 1 D	ATGC A	TTT L	GGT V	AGA D	TTT F	CTCC S	CT L	gaa K	GCT L	CT Y	ACCI H	ACG( A	CCTT F	CTC S	AG <b>G</b> G	aatg M	540 160
	AAC K								CTT F	TTCC S	CC	ATT F	'CAG S	CA I	TCG(	CCAC S	SCCT L	CCT	TAC T	CCAG Q	600 180
	GTC V								CAC T	CAAA K	AC T	AAA N	CCT L	GG E	AGA S	GCA'	rcci L	CTC S	ATT: Y	CCCC P	660 200
661 201	AAC K	GAC D	TTC F	A (	CCTG C	TGT V	CCA H	CC#	AGGC A	CCTG L	A.A K	G G	CTT F	CA T	CGA T	CCA.	AAGG G	TGI V	CAC T	CTCA S	720 220
721 221	GTC	CTCT S	CAG Q	A I	TCTI F	CCA H	CAG S	P	CAGA D	L.	G GC	CAT I	raag R	GG D	ACA T	CCT F	TTG1 V	GAZ N	ATGC	CTCT S	780 240
781 241	L CG(	GAC(	CTG L	· T Y	ACA(	SCAG S	CAG S	CCC P	CCAC R	EAGȚ( V	C CT	raac S	GCAA N	ACA N	ACA I S	GTG D	ACG(	CAZ N	ACTI L	GGAG E	840 260
843 263	l CT	CAT( I	CAAC N	A T	CCT( W	GGI V	PGGC A	CA K	AGA! N	ACACO T	C Ai N	ACA N	ACA <i>I</i> K	AGA I	TCA	.GCC R	GGC:	r GC' L	rag <i>i</i> D	ACAGT S	900 280
90:	L CT	GCC	CTCC	CG	ATA T	CCC	GCT L	TG'	TCC'	rcct(	CA N	ATG A	CTAT	rc: Y	racc r i	TGA S	GTG	C CA K	AGT( W	GGAAG K	96 30

#### FIG. 14B

961 301					ATCC P	CAA K	GAA K	AAC(	CAG. R	AATG M	GAZ E	ACC P	CTT F	TC H	ACTT F	CAA K	AAA N	CTC. S	AGT V	ATA I	1020 320
1021 321	AAI K	AGT( V	GCC P	CA M	TGAT M	'GAA N	TAG S	CAA K	gaa K	GTAC Y	CC' P	TGT V	GGC A	CC H	ATTI F	CAT I	TGA D	CCA Q	AAC T	TTTG L	1080 3 <b>4</b> 0
1081 3 <b>4</b> 1	AA. K	agc a	CAA K	GG V	TGGC G	GCA Q	GCT L	GCA Q	GCT L	CTCC S	CA H	CAA N	TCT L	GA S	GTT1	rggt V	GAT I	CCT L	GGT V	ACCC P	1140 360
1141 361	CA Q	gaa N	CCT L	GA K	AAC# H	ATCG R	TCT L	TGA E	AGA D	ACATG M	GA E	ACA Q	AGG(	ETC L	TCA(	GCCC P	TTC S	TGI V	TTT F	CAAG K	1200 380
1201 381	GC A	CAT I	CAT M	GG E	AGAZ K	AACI L	GGA E	GAT M	GTC S	CCAAG K	TT F	CC# Q	AGC(	CCA T	CTC'	rcc1 L	AAC T	ACT L	ACC P	CCGC R	1260 400
1261 401	AT I	CAA K	AGT V	GA T	CGA(	CCAC S	ECCA Q	GGA D	TATA M	rgctc L	TC S	AA? I	rca! M	TGG E	AGA K	AATI L	IGGA E	ATT F	rct7 F	CGAT D	1320 420
1321 <b>4</b> 21	TT F	TTC S	TT? Y	ATG D	ACC'	LATT N	ACCT L	GT(	etge G	GGCTG L	AC T	CAG E	AGG. D	ACC P	CAG D	ATC:	TTCA Q	GG!	rtt( S	CTGCG A	1380 440
1381 441	AT M	'GC# Q	GCI H	ACC Q	AGA T	CAG'	rgct L	GG2	AAC' L	TGACA T	. G! E	AGA T	CTG G	GGG V	TGG	AGG(	CGGC A	TG(	CAG A	CCTCC S	1440 460
1441 461	. GC	CAT	CTC S	CTG V	TGG A	CCC	GCAC	CC'	rgc' L	TGGTC V	T.	PTG E	AAG V	TGC	AGC	AGC	CCTT F	CC'	TCT F	rcgtg V	1500 480
1501 481	. C	YTOT	GGG D	ACC	AGC	AGC H	ACA <i>P</i> K	GT'	TCC P	CTGTC	T'	TCA M	TGG G	GGC F	GAG	TAT Y	ATGA D	CC P	CCA R	GGGCC A	1560 500
156	LTO	GAG	ACC'	TGC	: AGG	SATC	AGGT	TA	GGG	CGAGO	C G	CTA	CCI	CTC	CAC	3CCT	CAGO	TC	TCA	GTTGC	1620
1623	L A	GCC	CTG	CTG	CTC	CCT	GCCI	r GG	ACT	TGCCC	: c	TGC	CAC	CTC	CTC	CCT	CAGO	TG	TCC	GCTAT	1680
168	l C	CAC	CAA	AAC	G GGC	CTCC	TGA	G GG	TCI	GGGC	A A	.GGG	SACC	CTG	TTC	TAT	TAGO	C CC	TTC	TCCA	1740
174	1 G	GCC	CTG	CCZ	TGC	CTCI	CCA	A AC	CAC	CTTTT	r G	CAC	CTT	rtc:	r ct	agtt	CAAC	3 TI	CAC	CAGA(	: 1800
										.m 10	26										

## FIG. 15A

1	AC	TC	TG	CAC	· T	GGA	GC.	rgc	CT (	GGT	ACC	CAGA	AG	TTT	GGA	GT	CCG	CTGA	CGT	CGG	CCG	ccc	AG (	60
				rcc s				ACC T		GCT(	GAC T	CCTC L	CT L	GCT L	GCT L	GC L	TGÇ' L	rggc A	TGG G	GG.	ATA R	GAC	SCC	120 20
121 21	T(	CCI	CA	aat N	P	CAJ 1	AAT V	GCT A	AC T	CAG S	CTC S	CAGC S	TC S	CCA Q	.GGA D	TC P	CAG E	AGA( S	FTTT L	GC. Q	AAC	GACI	AGA R	180 <b>4</b> 0
181 <b>4</b> 1							GTC V	GCA A	AC T	AAC T	AGT V	TATC	TC S	CAP K	GAT M	GC L	TAT F	TCG: V	TTGA E	AC P	CCZ	ATC	CTG L	240 60
241 61	G. E	AG(	ett J	TC( S	CA S	GC	TTG L	CCC P	BAC T	AAC T	CAA N	CTCA S	AC T	AAC T	CAA N	ATT S	CAG A	CCA(	CCAA K	AA I	LATA	ACA(	GCT A	300 80
301 81				AC' T		ΑТ	GA <i>I</i> E	P P	CAC T	CAC T	ACA Q	ACCC P	A(	CCAC T	CAGI E	AGC P	CCA	CCA T	CCCA Q	AC E	ecci	ACC T	ATC I	360 100
361 101	. c	:AA )	CC(	CAC T	CC Q	AA	CCI P	AAC' T	TAC T	CC# Q	GCT L	P	A A	CAG. D	TTA S	CTC P	CT	CCC	AGC(	C C#	ACT.	ACT T	GGG G	420 120
421 121	. 7	rcc S	TT( F	CTG C	CC P	CA	G G	ACC P	TGT V	TAC T	CTC: L	rctgo C	T S	CTG D	ACT L	TGG E	AG	AGTC S H	ATTO	C A/	aca T	GAG E	GCC A	480 140
481 141	LC	STG V	TT L	GGG G	GG D	AT	rgc A	TTT L	GGT V	AG. D	ATT' F	TCTC(	C C L	TGA K	AGC	TCT Y	AC	CACC H I	CCT'	I C	TCA S	GCA A	AATG M	540 160
54: 16:	1 1	AAC K	EAA K	GG1 V	GG E	A A C	GAC T	CAA N	CAT M	GG A	CCT F	TTTC	C C P	CAT	TCA S	.GC#	TC	GCCI A	AGCC E L	T C	CTI L	ACC T	CCAG Q	600 180
60: 18:	1 .	GT( V	CCT L	GCT L	CCG	GG	GGC A	TG( G	GCA Q	GA N	ACA T	CCAA K	A A T	CAA	ACC	TG(	Gag E	AGC S	ATCC I L	т с	TCI S	TA Y	CCCC P	660 200
66 20	1	AA( K	GGA D	CT'	rc <i>i</i>	A. C. r	CTC C	TG: V	CC <i>I</i> H	, CC	AGC	SCCCT L	G A	AAG(	GC1	rtc:	A CG I	ACC.	AAAG K G	GT	V.	CAC T	CTCA S	720 220
72 22	1	GT V	CT( S	CTC. Q	AG	A T	CTI F	rcc. H	ACA(	G CC	CAC	ACCT L	G (	GCC:	ATA I I	AGG R	G AC	ACC T	TTTC F V	ST G	GAA' N	rgc A	CTCI S	780 240
78 24	11	CG R	GA(	CCC	TGʻ	T A Y	CA S	GCA S	GCA(	G CC	CC2	agagt R V	.c (	CTA.	AGC. S	aac N	A AC N	AGT S	GACC D A	SC (	CAA N	CTT L	GGA(	3 840 260
84 26	11 51	CT L	'CA' I	rca N	.AC	A C	CT W	GGG V	TGG A	C C2	AAG K 1	AACAC N T	cc .	AAC N	AAC N	AAG K	A TO	CAGC S	CGG(	CT (	GCT L	AGA D	CAG'	r 90 28
9(	01	CT	'GC	CCI	CC	:G 2	ATA T	CCC	GCC	T T	GTC	CTCC: L L	rc	AAT N	GCT A	ATC	T A Y	CCTC	AGT	GC ( A	CAA K	GTC W	GAA K	G 96 30

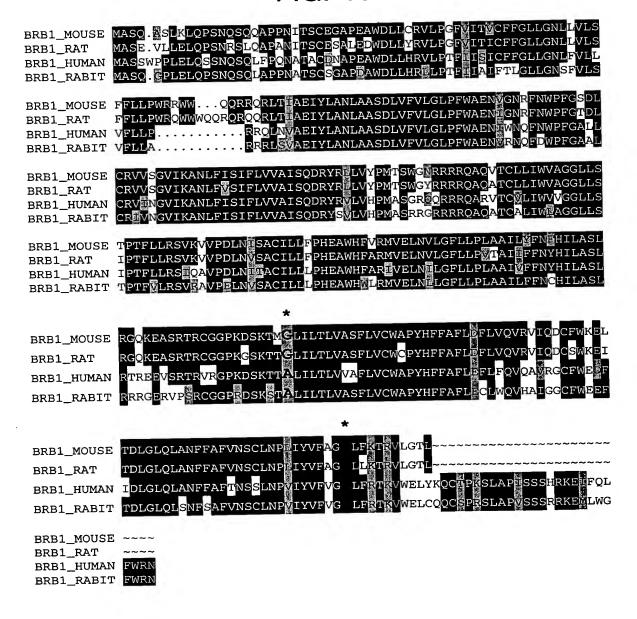
## FIG. 15B

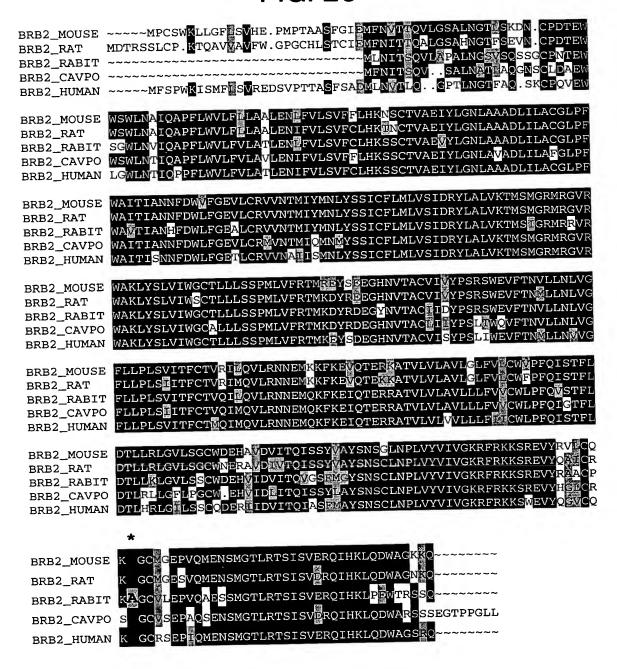
961 301	AC T	AA T	CA!	rti F	G D	ATC I	CC	AAG K	BAA K	AAC( T	CAGI R	AATG M	GA <i>I</i> E	P	TTI F	CC H	ACTT F	CAA. K	AAA N	CTC S	AGT: V	TATA I	102 320	0
1021 321	AA K	lag V	TG	P CC(	CA M	TG:	ATG M	AA: N	TAG S	CAA(	GAA K	GTAC Y	CC'	TGT( V	GGC(	CC H	ATTI F	CAT I	TGA D	CCA Q	AAC T	TTTG L	108 340	30
1081 3 <b>4</b> 1	A. K	AAG A	cc	AA K	GG V	TG	GG(	GCA(	GCT L	GCA Q	GCT L	CTCC S	CA H	CAA N	TCT L	GA S	GTT! L	rggt V	GAT I	CCI	rggt V	ACCC P	114 360	10 0
1141 361	. C	AGA	LAC I	CT L	GA K	AA	CA' H	rcg R	TCT L	TGA E	AGA D	CATG M	GA E	ACA Q	.GGC A	TC L	TCA S	GCC(	CTTC S	TG: V	PTTI F	CAAG K	12 38	00 0
120: 38:	l G l A	CC2	ATC	TAC M	GG E	AC	SAA K	ACI L	GGA E	GAT M	GT( S	CCAAC K	TT F	rcc <i>i</i> Q	P P	CCA T	CTC	TCC' L	raac T	AC L	TAC(	CCCGC R	12 40	60 0
126 40	1 A 1 I	TC:	AA. K	AGI V	GA T	C	GAC T	CAC S	GCCA Q	. GG: D	ATA' M	TGCT( L	C T S	CAA' I	rca' M	rgg E	AGA	AAT L	TGGA E	A AT	TCT F	TCGAT D	13 42	20 20
132 42	1 7 1 1	rtt F	TC S	TT. Y	OTA I	3 A 0	CC1	ATT N	ACCI L	GT C	GTG G	GGCT L	G A T	CAG E	AGG D	ACC	CAC	OTAE I C	TTCI Q	A. GC V	TTT / S	CTGC	3 13 4	380 40
138 44	11 1	ATG M	CA Q	GC H	AC(	C A Q	GAO.	CAG V	TGC'	r gc r	AAC I	TGAC T	A G	AGA T	CTG	GG(	G TG V	GAGC E 1	GCGG A A	C TO	GCAC A I	CCTC A S	C 1.	440 60
144	11 51	GC( A	I	rct S	CT	G 7 V	GG A	CCC F	GCA T	C C(	CTG(	CTGG7	C T	TTTC	OAA <del>.</del> 7 E	GTG J	C AG Q	CAG( Q	CCCT P F	T C	CTC:	rtcat F <u>M</u>	G 1 4	500 80
15 4	01 81	CT( L	CT W	GG(	GAC O	C 2 Q	AGC Ç	AGC	ACA I K	A G'	TTC F	CCTG' P V	rc :	rtc: F 1	ATG(	GGG G	C GA R	GTA V	OTAT.	A C	P	aggg( R A	C 1	.560 500
15	61	TG	AG	AC	CTG	3C	AGC	TAE	CAGO	FT T	AGG	GCGA	GC	GCT	ACC	TCI	rc cz	\GCC	TCA	SC I	CTC	AGTT	3C 1	1620
16	21	AG	ЮC	CT:	GC1	rg	CT	3CC	TGC	CT G	GAC	TTGC	ice	CTG	CCA	.CC	rc c	rgco	CTCA	GG 1	rgtc	CGCT.	AT :	1680
																						CTCC		
1	741	G	3C(	CCI	'GC	CA	ТG	CTC	TCC	AA 2	ACC	ACTTI	TT	GCI	\GC1	rTT	CT C	TAG'	TTCA	AG	TTC	ACCAG	AC	1800
	001	m	<b>ст</b> .	አጥ?	ממו	4T	ΔΔ	ACC	TGA	CA (	GAC	CAT :	1820	6										

1	тC	CT	cc	AC	CT	G	CT	GG(	CCC	CT	GG	AC	ACC	CTC	T (	STC	AC	CAT M	GT W	G	STTC F	CTC L	GT V	TC! L	rg1 C	GC	CTC L	60 8	
61 9	GC A	CCC	TG	TC S	CC L	T	GG G	GG(	GGG G	AC T			GCT A		G (	CC(	CCC P	GAI I	TC Q	A	GTC( S	CCG( R	GAT I	TG V	TGC	GA G	GGC G	120 28	
121 29	T(	GGC I	SAC E	C C	TG E	E A	.GC	AG	CAI H	TTC S	CC	CAG Q	CC( P	CTC W	G	CA( Q	GGC A	GG( A	CTC L	Т	GTA( Y	CCA'	TTT F	CA S	GC	act r	TTC F	180 48	
181 49							C.P.	ATC	CT(	GGT V	G	CAC	CG R	CC <i>I</i> Q	AG	TG W	GGI V	'GC' L	TCA	C	AGC A	TGC A	TCA H	TI	GC.	ATC I	: AGC S	240 68	1
241 69							AG(	CTC L	TG W	GCT L	G	GG7 G	rcg R	CC:	AC	AA N	CTI L	rgt F	TTG E	; <i>]</i>	ACGA D	.CGA E	AAA N	CF	CA	GC( A	CAG Q	300 88	)
301 89	T	TT F	GT V	TC. H	ΑT	G ' V		AG'I S		GAG S	; C	TT( F	CCC P	AC. H	AC	CC P	TG(	GCT F	TCA	1	ACAI M	GAC S	ECT L	C(	CTG L	GA( E	GAAC N	360 108	)
361 109							AA	GCZ A	AGA D	CG2 E	A. G	GA D	CT# Y	ACA S	.GC	C# H	ACG D	ACC I	TCI	A '	TGCT L	rgc'i L	rcco R	G C	CTC L	AC. T	AGAG E	128	0 8
421 129						A T	cc	AT I	CAC T	CAG D	· A. T	rgc A	TG: V	rga K	LAG	Gr. V	rcg V	TG(	eag' E	T L	TGC( P	ACC T	CCG2	A G	GAZ E	ACC P	CGAA E	14 14	0 8
48: 14:							cc			PD1 A			CCG G	GC1 V	rgg v	G G	GC#	GC:	ATC I	G E	AAC P	CAG E	AGA. N	A T	TT(	CTC S	ATTI F	54 16	8
54 16	1 9	CC. P	AG. D	AT(	GA: D	rc L	T	CCA Q	GT C	GTG V	· T	GG <i>I</i> D	ACC L	TC	AAA K	A I	TC(	CTG L	CCT P	A N	ATG D	ATG	AGT C	G C	AA K	AA# K	AAGC(	2 60 18	18
60 18	1	CA H	.CG V	TC	CA( Q	GA K	A	GG7 V	rga T	CAC	A O	CT' F	TCA M	TG I	CTC L	3 T	GT(	GTC V	GG# G	C H	ACC	TGC	EAAG E G	G 1	rGG G	CAI K	AAGA D	C 66 20	50 )8
66 20	19	AC T	CT C	GT	GT V	GG G	G	TGI D	ATT S	CAC	GG G	GG G	GCC	CCG	CT(	G A N	TG I	TGI C	GAT D	rg G	GTC 7	TG(	CTCC	:A :	AGC G	TG V	TCAC T	A 72 22	20 28
72 22	21	T(	CAT V	rge I	G G	CT Y	A	.CG V	TCC	CT'	rg C	TG G	GC2	acc r	CC(	C 2 1	TA.I	AAC K	CC'	rt S	CTC	GTC(	GCC(	ST (	CAC R	GAG V	TGCT L	G 7:	80 48
7:	81 <b>49</b>	T(S	CT.	ran Y	rgi V	GA K	A 24	.GT W	GGZ	ATC I	GA E	GG	SAC	ACC T	CAT I	A (	GCG A	GA( E	GAA N	CT S	CC	TGA *	ACG(	CC	CAG	GCC	CTGT	2 2	4( 6:

1	TC	CTC	:CA	.cc	T	GCI	'GG	cco	CCT	GGA	CAC	CTCT	G	TC	ACC	CAT( M	GT W	GGT F	TC	CTG L	GT V	TCT L	GTG C	CCT	C 6	50 B
61 9						TGC	GGG	G G	GAC T	TGG' G	TGC A	TGCG A	P	CC	CC(	GAT I	TC Q	AGT S	rcc S	CGC R	AT I	TGT V	GGG G	G G	C 1	L20 28
121 29	TG W	GG/ E	AG!	rgi C	G E	AG(	CAC Q	CA' H	TTC S	CCA Q	GCC P	CTGC W	Ç	:AG	GC( A	GGC A	TC L	TGI Y	rac Z	CA? H	TT F	CAG S	CAC T	TTI F	ic :	180 48
181 49							ATC I	CCT L	GGT V	GCA H	CCG R	CCAC	3 7 V	rgg 1	GT V	GCT L	CA T	CAC	GCT A	GC! A	rca H	TTC	CAT I	rcac S	c :	240 68
241 69	GA D	CA. N	AT'	rac Y	CC Q	AG	CT( L	CTG W	GCT L	GGG G	TCG R	CCAC H	: 2 1	AAC V	TT L	GTI F	TG D	ACC	GAC D	GA. E	AAA N	CAC	'AG( A	Q Q	AG	300 88
301 89	TT F	TG V	тT	CA! H	IG V	TC.	AG' S	rga E	GAG S	CTI F	P	CACA( H	C (	CCI P	rgg G	CTI F	CA N	AC.	ATC M	SAG S	CCT L	CC.	rgg. E	AGA. N	AC	360 108
361 109	CZ H	ACA T	CC	CG( R	CC Q	AA	GC. A	AGA D	CGA E	GG <i>I</i>	ACT! Y	ACAG S	C (	CA( H	CGA D	CCI L	CA M	TG	CT(	GCT L	CCG R	CC	rga T	CAG E	AG	420 128
421 129							AT I	CAC T	CAGA D	TG(	CTG' V	TGAA K	G	GT( V	CGI V	rggi E	AGT L	TG	CC(	CAC T	: CGA E	. GG.	AAC P	CCG	AA	480 148
481 149	. Gʻ	TGG	GG	AG S	CA T	cc	TG C	TT!	rggc A	TTC S	CCG G	GCTG W	G	GG G	CA(	GCA' I	TCG E	AA E	CC P	AGA E	LGAA N	TT F	TCI S	CAT	TT	540 168
541 169	. C	CAC	A?	rga D	TC L	TC	CZA Q	C C	GTGT V	GG.	ACC L	TCAA K	À	AT I	CC'	TGC P	CTA N	LA A I	GA D	TG/ E	AGTO C	CG E	AAA I	AAA 4 )	cc	600 188
601 189	L C	ACC	ST( J	CCA Q	AGA K	. <b>A</b> 0	GI V	'GA' T	CAGA D	CT F	TCA M	TGCI L	rg	TG C	TG V	TCG G	GAC	C AC H	CCI L	GGZ E	AAG(	3 TG	GCZ	AAAC K I	SAC	660 208
66: 20:	1 A 9 T	cc'	rgʻ C	rgi V	G	G':	rg/ D	ATT S	CAG( G	G GG G	GCC	CGCI	rg	PA M	GT C	GTG D	ATC	G G7	rgi V	'GC'	rcc; Q	A AG	GT(	STC1	ACA r	720 228
72: 22:	1 T 9 S	CA	TG W	GG(	GCT Y	A A	CG! V	rcc P	CTT	G TG	GC#	ACCC(	CC	A.P N	ATA K	AGC	CT	· T C' S	rgi V	CG A	CCG	T C#	kga(	GTG( V	CTG L	780 248
78 24	1 7 9 8	rct S	TA Y	TG: V	TGI	A A	GT W	GGA I	TCG.	A GO	SACI	ACCA' r i	TA	G( A	CGG E	ag <i>i</i>	AAC'	T C S	CT( *	GAA	.cgc	c c	AGC	CCT	GTC	840 262

1	TC	CT	CC.	ACC	CT	GC	TGC	cc	cc	T G	GAC	ACC	CTC	T (	<b>GT</b> C	AC	CAT M	GT W	G	GTTC F	CT(	GT V	TC L	TGT	rgc C	CTC L	60 8
61 9										.C :	rgg7 G	rgc' A	TGC A	G	CCC	CCC P	GAT I	TC Q	A	GTC( S	CCG( R	GAT I	TG	TG(	GGA G	GGC G	120 28
121 29					rg E	AG	CA Q	GCI H	ATT S	TC (	CCA( Q	GCC P	CTG W	G	CAC Q	GGC A	GG( A	CTC L	ı	GTA( Y	CCA H	TTT F	C#	AGC.	ACI T	TTC F	180 48
181 <b>4</b> 9							CAT I					CCG R			TG( W	GGI V	GC'	TCA		CAGC A	TGC A	TCA H	TT	rgc	ATO I	CAGC S	240 68
2 <b>4</b> 1 69							GCT L				GGG G	TCG R	H H	AC	AA N	CTI L	GT F	TTG	; ; )	ACGA D	.CGA E	AAA N	. C	ACA T	GC( A	CCAG Q	300 88
301 89					TG V			TG E		AG S		P			CC P	TG(	GCT F	TCA	A .	ACAT M	GAC S	CCI L	C	CTC	GA E	GAAC N	360 108
361 109							AG( A	DAC	SAC	GA E	GG <i>I</i>	YY	ACA S	GC	CA H	CG. D	ACC I	TC	A. M	TGCT L	rge: L	rccc R	G C	CT( L	GAC T	AGAG E	420 128
421 129						A C			ACA r		TG(	CTG' V	TGA K	AG	GT V	POT	TGC	GAG'	T L	TGC(	CCA T	CC <b>C</b> 2	A G	GA. E	ACC P	E E	480 148
				GA S			CT C	GT"	rt( L	GGC A	TT S	CCG G	GCI W	rgg 1	G	GCA S	GCZ	ATC I	G E	AAC P	CAG E	AGA. N	A 1	TT F	CTC S	ATTI F	540 168
54: 16	1 ( 9 :	CCI P	AGZ D	ATG D	ΑT	C:	rcc Q	AG'	TG:	rgt V	GG. D	ACC L	TCI	AAA K	A' I	TCC	TG	CCT P	A N	ATG D	ATG E	AGT C	G (	CAA K	AA! K	AAGC(	600 188
60 18	1 9	CA( H	CG: V	rcc Ç	AG	A . K	AGG V	TG '	AC. T	AGA D	CT F	TCA M	ATG(	CTG L	T C	GT(	STC J	GGA G	H	ACC	TGG	AAG G	· G	rgg G	CA.	AAGA( D	2 660 208
66 20	1	AC T	CT C	GTC V	TG 7	G G	GT(	AT O	TC S	AGG G	G G	GCC ; I	CCG P	CT(	G A M	TG!	rgt C	GAI D	IG G	GTG V	TGC 7 I	L C	:A .	AGC G	etg V	TCAC. T	A 720 228
72 22	1	TC S	TA W	GG(	GGC G	T Y	AC(	STC J	P	TTC C	3 TC	GCZ	acc T	CC(	C A N	LAT.	AAG K	CCT P	PT S	CTC	STC(	SCCC	· FT /	CA(	GAG V	TGCT L	G 780 248
78 24	31 19	TC S	TT: Y	YTA'	GT( V	SA K	AG'	W TGC	I	CG E	A. GC 1	GAC	ACC T	AT.	A C	GCG A	GAC E	AAE N	CI S	CC	rga: *	ACG	CC	CA	GCC	CTGI	840 262





# FIG. 21A

1	CTG	TGC	ATC M			ATC(			P P		GAG E	CT(	Q Q	AT S	CCTC S	CAA N	CCA Q	GAG(	Q Q	ECTC L	60 18
		CCC P			ATGC A	TAC T	GGC A	CTG'	rga( D	CAAT N			AGA: E			egga D	CCT L	GCT L	GCA(	CAGA R	120 38
		GCT( L		NIA T	CATI F		CAT I	CTC S	CAT(	CTGT C	TT(	CTT F	cgg G	CC L	TCCT	PAGG G	GAA N	CCT	TTT F	rgtc V	180 58
181 59	CT L	GTT L	ggt V	CT F	TCC7	rcct L	GCC P	CCG R	GCG R	GCAA Q	CTC L	gaa N	CGT V	GG A	CAG!	TAAA I	CTA Y	CCT	GGC A	CAAC N	240 78
		GGC A			CTG2 D	ATCT L	GGT V	GTT F	TGT V	CTTG L	GG G	CTT L	GCC P	CT F	TCT	GGGC A	AGA E	GAA N	TAT I	ctgg W	300 98
		CCA Q				GGCC P	TTT F	CGG G	AGC A	CCTC L	CT L	CTG C	CCG R	TG V	TCA'	TCA! N	G G	GG1 V	'CAT I	CAAG K	360 118
361 119						TCAC S		CTT F	CCI	Y V	GT V	'GGC A	rad: I	CA S	GCC	AGG: D	ACCG R	CT#	CCG R	CGTG V	420 138
421 139					CTA M	TGG(	CCAG S	G G	GAAC R	GCAG Q	Q Q	AGC( R	GGC( R	GGA R	GNIC	AGG	CCCG R	V V	OADT T	CTGC	480 158
		rgci L				TTG' V	IGGG G	G G	GCC7 L	rctto L	AC S	GCA'	P P	CCA T	CAT	TCC L	TGCI L	GCC R	GAT( S	CATC I	540 178
541 179	. C2	AAG( A	CCG' V	rcc P	CAG	GATC'	TGAA N	CA'	TCA(	A	C	GCA' I	TC <b>N</b>	TGC I	TCC	TCC	CCC <i>I</i>	A TG.	AGG( A	CCTGG W	600 198
		ACT F				ATTG [ V	TGG#	GT'	TAA. N	ATAT:	r C'	TGG G	GTT F	TC(	C TC( L I	CTAC L P	CAC	GG A	CTG A	CGATO I	2 660 218
66: 21:	1 G 9 V	TCT F	TCT F	TCI N	A ACT	PACC H	ACA:	r cc l	TGG A	CCTC	C C' L	TGC R	GAA T	.CG(	C GG( R 1	gang E e	EAGG'	CA S	GCA R	GGACI T	720 238
72: 23:	1 A 9 R	GAG V	TGC	NG(	GGG	CCGA P K	AGG:	A TA S	.GCA K	AGAC T	C A T	CAG A	CGC L	TG	A TC	CTC!	ACGC r L	T CG	TGG V	TTGC(	780 258
78 25	1 T 9 F	TCC	TGC V	TC!	I GC'	TGGC W I	SCCC	C TI	ACC H	ACTT	C T	TTC	CCI	TC	C TG	GAA:	PTCT F L	T AT	TCC	AGGT V	G 840 278
84	1 0	AAC	CAC	TC	CGA	GGC1	rgct F	T TI V	rgge v e	AGGA	C I	TC	TTC	SAC	C TG L	GGC	CTGC	LA A	TTGG	CCAA N	C 904

### FIG. 21B

901 299					CAG S	CTC S		GAAT N	agt V	TT Y	ATGT V	CTI F	TGT V	GGG G	CCN X	GCTC L	960 318
961 319	CAG R		CA K	aggt V	EGGA		TTA Y		ATG C	CC P			STCT L	TGC A	TCC P	AATA I	1020 338
1021 339		ATC S	ССС Н					CCAA Q	TTI F	GC R		ATT? *	AAAA	CAG	CAT	TGAA	1080 353

1081 CC 1082

# FIG. 22A

1	AATTCAGAGC	CACCGCGGGC	AGGCGGGCAG	TGCATCCAGA	AGCGTTTATA	TTCTGAGCGC	60
61	CAGTTCAGCT	TTCAAAAAGA	GTGCTGCCCA	TAAAAAGCCT	TCCACCCTCC	TGTCTGCTTT	120
121	AGAAGGACCC	TGAGCCCCAG	GCGCCAGCCA	CAGGACTCTG	CTGCAGAGGG	GGGTTGTGTA	180
181 1	CAGATAGTAG	GCTTTACGCC	TAGCTTCGAA	ATGGATAACG M D N V	TCCTCCCGGT L P V	GGACTCAGAC D S D	240 10
241 11	CTCTCCCCAA L S P N	ACATCTCCAC I S T	TAACACCTCG N T S	GAACCCAATC E P N Q	AGTTCGTGCA F V Q	ACCAGCCTGG P A W	300 30
301 31	CAAATTGTCC Q I V L	TTTGGGCAGC WAA	TGCCTACACG A Y T	GTCATTGTGG V I V V	TGACCTCTGT TSV	GGTGGGCAAC V G N	360 50
	GTGGTAGTGA V V V M		CTTAGCCCAC L A H	: AAAAGAATGA K R M F	GGACAGTGAC T V T	GAACTATTT N Y F	420 70
421 71	CTGGTGAACC L V N L	TGGCCTTCGC AFA	C GGAGGCCTCC E A S	ATGGCTGCAT	T TCAATACAGT N T V	GGTGAACTTC VNF	480 90
481 91	ACCTATGCTC T Y A V	G TCCACAACGA H N E	A ATGGTACTAC W Y Y	C GGCCTGTTC G L F	TACTGCAAGTT YCKF	CCACAACTTC H N F	540 110
	TTNCCCATCO	G CCGCTGTCT' A A V F	T CGCCAGTATO A S I	C TACTCCATG Y S M '	A CGGCTGTGGC I A V A	CTTTGATAGG F D R	600 130
601 131	TACATGGCCZ	A TCATACATC I I H P	C CCTCCAGCC L Q P	C CGGCTGTCA R L S	G CCACAGCCAC A T A T	C CAAAGTGGTC K V V	660 150
661 151	LATCTGTGTC	A TNTGGGTCC I W V L	T GGCTCTCCT A L L	G CTGGCCTTC L A F	C CCCAGGCTI P Q G Y	A CTACTCAACC Y S T	720 170
721 171	l ACAGAGACC.	A TGCCCAGCA M P S R	.G AGTCGTGTG . V V C	C ATGATCGAA M I E	T GGCCAGAGCA W P E H	A TCCGAACAAG P N K	780 190
783 193	1 ATTTATGAG 1 I Y E	A AAGTGTACC K V Y H	A CATCTGTGT I C V	G ACTGTGCTG T V L	A TCTACTTCC	T CCCCCTGCTG P L L	3 840 210
84	1 GTGATTGGC	T ATGCATACA	AC CGTAGTGGG	A ATCACACTA	T GGGCCAGTG	A GATCCCCGGC I P G	₃ 90
90	1 GACTCCTCT	G ACCGCTACO	CA CGAGCAAGI	C TCTGCCAAG	SC GCAAGGTGG	T CAAAATGATG	3 96

### FIG. 22B

961 251	ra I	ot:	TC 7	G V	rg	Gʻ V	TG'	rg( C	CAC T	CT I	T	CGC( A	EAT(	ctgc c	TG W	GCT L	GCC P	CT F	TCCA H	CAT I	CTT F	CTT(	CT( L	CCTG L	1020 270
.021 271	C(	cc:	rac Y	CA I	TC	A N	AC	CC. P	AG. D	ATC	CT L	CTA Y	CCT L	gaag K	AA K	GTT F	TAT I	PCC Q	AGC# Q	V V	CTA Y	CCT	GGC A	CATC I	1080 290
081 291	A' M	TG	TG W	GC L	TC	G A	CC	AT M	GA S	GC'	TC S	CAC T	CAT M	GTAC Y	: A.F N	P P	CAT I	CA I	TCT?	C C	CTG C	CCT	CAA N	TGAC D	1140 310
1141 311	A R	.GG	TT F	CC F	:G:	IC L	TC	G G	CT F	TC	AA K	GCA H	TGC A	CTTC F	C CC R	GTC C	C C	SCC P	CCT F	rcat I	CAG S	CGC	cGG G	CGAC D	1200 330
1201 331	. I	'AT	GA E	G	GG( G	GC L	T	GG/ E	AA. 1	TC 1	AA K	ATC S	CAC T	CCG(	G T. Y	ATC!	rccz Q	AGA T	CCC	AGG( G	SCAG S	TG?	'GT <i>I</i> Y	ACAAA K	1260 350
1261 351								GG/ E	AGZ	AC(	CAC T	CA'	rct(	CCAC. T	A G V	TGG	TGG G	GGG A	CCC	ACG.	AGGA E	. GG:	AGC(	CAGAG E	1320 370
132: 37:	1 ( 1 1	GA(	CG G	GC	CC P	CA K	A C	GG A	CC.	AC. T	ACC P	CT S	C <b>NT</b> S	CCCT	G G	ACC L	TGA	CCI	CCI	ACT	GCT(	TT S	CAC R	GAAGI S	1380 390
138 39	1 1	GA D	CT S	CC	:A.I K	AG <i>I</i>	A. C	CA M	TG I	AC T	AG/	A. GA S	GCT F	TCAC	SC 1	TCT F S	CCI S S	CCI	A ATO	STGC V I	TCT S	C CT *	AGG	CCAC	1440 407
144	.1	GG	GC	:CJ	rT'	rgo	G (	CAC	GI	'GC	AG	c cc	:CCJ	\CTG(	ec 1	rtt(	BACC	CTG	C CT	CCCI	TCA	T GC	:ATG	;GAAA'	r 1500
150	)1	тc	ccc	T.	rc.	PΤ	C :	rgo	SAZ	\C(	TA:	C A	LAA	ACAC	CC '	TCA	CAC!	rgg	G AC	TTG	CAAA	A A	GG7	rcagt.	A 1560
156	51	T	GG	GT"	TA	GG	G	AA	A.A.	CA?	rtc	C A'	rcc'	rtga	GT	CAA	AAA.	ATC	T CA	ATTA.	CTTC	:C C'	TAT	CTTTG	C 1620
16:	21	C	AC	cc	TC	TA:	G	CT	GT	GT	GAC	T C	AAA	CCAA	AT	CAC	TGA	ACI	T TO	CTG	AGCC	T G	TAA	AATAA	A 1680
16	81	A	GG	TC	:GC	AC	:C	AG	CT	TT	rco	СТ С	AAG	AGCC	CA	ATG	CAT	TCC	CA TI	TCT	GGAI	AG T	GAC'	TTTGG	SC 1740
		_						mc	-Cm	<i>C</i> N	mme	rc a	രവ	.тс. 1	766	5									

# FIG. 23A

																										_		
1	AG	TC	TG	CA	CT	GG	AG	CTC	€CC	TG	GT	GAC	CAC	SA A	AGI	r <b>T</b> T	GGA	GT	CC	GCI	'GA(	CGT	CG	CCG	CC	CAG	60	
					ca R		CT L			T G	CT L	GAC T	CC?	rc (	CT( L	GCT L	GCI L	GC L	TG	CTC L	GC' A	IGG G	GG D	ATA F	.GA:	GCC A	12 20	0
121 21	T(S	CC1	rca S	a. N	ATC P	CZ	AAA N	TG A	CT#	.c (	CAG S	CT( S	CCA S	GC	TC S	CCA Q	.GG <i>I</i>	ATC P	CA	GA( E	GAG S	TTT L	GC	AA: I	GAC O	AGA R	18 40	30 )
181 <b>4</b> 1	G	GC(	GA <i>l</i> E	G G	GGA K	A	GGI V	CG A	CAI	AC Z	AAC T	AGʻ V	TTA I	TC	TC S	CAI K	AGA' M	TGC L	T	ATT F	CGN X	TGA E	. AC	cc	ATC I	CTG L	60	10
2 <b>4</b> 1 61	. G	AG	GT: V	rte S	CC#	A G	CT:	rgc E	CG	AC . T	AA( T	CCA N	ACT	CA	AC T	AAC T	CCA N	ATT S	CZ	AGC A	CAC T	CAA K	. A1	ATA I	ACI T	AGCT A	8	00 0
		AT			CT		TG. E	AA(	CCC P	AC T	CA(	CAC	AA: I (	CCC	A(	CCA T	CAG E	AGC	C C	CAC T	CAC T	Q Q	A A	CCC P	AC T	CATO	3	60 00
36: 10:	1 ( 1 (	CAF Q	P P	CA I	, CC	C <i>1</i> Q	AAC P	CA	ACI T	· AC T	CC Q	AGC I	CTC	CCA P	A	CAG	TTA:	rct(	C C P	TAC T	CCC. Q	AGC P	c c	ACT T	T T	TGG G	3 4 1	.20 .20
42 12	1 1	TC( S	CTI F	rci O	rgc C	C ( P	CAG	GA	CCI P	rgt V	TA T	CTC	CTC L	TGC C	T S	CTC	GAC'	rtg L	G A E	AGA S	GTC H	ATT S	C A	ACI T	AGA E	A A	C 4	180 L40
48 14	1	GT V	GT! L	rgo	GGC G	G D	ATC	GCI A	TTC L	GGT V	AC	TAE O	TTC F	TCC S	C	TG	AAG K	CTC L	· T I Y	ACC H	ACG	CCT	T (	S S	AGI X	T <i>AA</i> I M	G !	540 160
54 16	11 51	AA K	GA. K	AG	GT( V	E	AG	ACC T	CAA N	CAT M	G	GCC A	TTI F	rtc( S	C C I	CA'	TTC F	AGC S	· I	TCG A	CCI	AGC( S I	T (	CCT L	AT T	CCC# Q	AG .	600 180
		gi V				CG G	GG	GC' A	rgg G	GCA Q	A G	AAC N	T T	CAA K	A <i>i</i>	aca T	AAC N	CT( L	GG E	AG/	AGC.	ATC	CT L	CTC S	TT: Y	ACC(	cc	660 200
6 2	61 01	A/ K	\GG	SAC O	TT F	CA T	CC	TG C	TGI V	CCI H	A C	CA( Q	GGC A	CCT L	G	AAG K	G G	CTT( F	CA T	CG	acc T	AAA K	GG G	TGI V	ACT T	CCT S	CA	720 220
7	21 21	G'	rci	rc:	rc <i>a</i> Q	GA I	TC	TT F	CC2 H	ACA( S	G C	P	AGA D	.CCI	G	GC( A	I	AAG R	GG D	AC	ACC T	TTT F	gt V	ga. N	ATC	CCT A S	CT	780 240
7	81 241	. C	GG.	AC T	CC!	TGT Y	A	CAC S	SCA	GCA S	G	CCC P	CAG R	PAGT V	rc	CT: L	aag S	CAA N	CA N	AC	AGT S	GAO D	GC A	CA N	AC:	rtgo L E	ag E	840 260
8	3 <b>41</b> 261	LC	TC	AT I	CA. N	ACA	A. C	CT( W	GGG V	TGG A	GC (	CAA K	GAJ N	ACA( T	CC	AA N	CAA N	CA? K	AGA I	TC	CAG S	CCG( R	SCT L	GC	TA	GACI D :	AGT S	900 280
!	90: 28:	L (	TG	iCC P	CT S	CCC	3 A D	AT. T	CCC	GCC	CT	TGT V	rcc' L	TCC L	TC	AA N	TGC A	TAT I	rci Y	AC	CCT L	GAG S	TGC A	C.F	\AG (	TGG. W	AAG K	960 300

### FIG. 23B

961 301	AC. T	AA( T	CAC I	TT.	G 1 D	ATCC P	CAA K	GAA K	AAC( T	CAGI R	aatg M	GAZ E	ACC(	ETT!	rc H	ACT:	rcaa K	AAA N	CTC	CAGT V	TATA I	1020 320	
1021 321	AA K	AG' V	rg(	CCC P	CA '	TGAT M	GAA N	TAG S	CAA K	GAA K	GTAC Y	CC'	TGT V	GGC(	СС Н	ATT F	TCAT I	TGA D	CCI Q	AAAC T	TTTG L	1080 3 <b>4</b> 0	
1081 3 <b>4</b> 1	A.F K	lag A	CC	AA( K	GG V	TGGC G	GC <i>I</i> Q	GCT L	GCA Q	GCT L	CTCC S	CA H	CAA N	TCT L	GA S	GTT L	TGGT V	TGAT I	CC	TGGT V	P P	1140 360	
1141 361	CZ Q	AGA N	.ac	CT L	GA K	AACI H	ATC(	ETCT L	TG# E	AAGA D	CATG M	GA E	ACA Q	.GGC A	TC L	TCA S	GCC	CTTC S	TG V	TTT'	ICAAG K	1200 380	١
1201 381	. G	CC <i>I</i>	ATC	AT M	GG E	AGA K	AAC L	TGGA E	GA'	rgt( S	CCAAC K	3 TI F	rcc <i>i</i> Q	AGC(	CCA T	CTC	CTCC L	TAAC T	AC I	TAC P	CCCGC R	1260 400	)
1261 401	L A	TC:	A.A.Z K	AGT V	GA T	CGA T	.CCA	GNC# Q	GG.	ATA M	TGCT( L	C T S	CAA' I	rca' M	TGG E	AG	AAAT K I	TGG.	A. A.	TTCT F F	TCGA'	r 1320 420	0
132 42	1 T	TT F	TC' S	TT <i>I</i> Y	ATG D	ACC	TT? 1	ACC'	r gt c	GTG	GGCT L	G A T	CAG	AGG D	ACC	CA	GAT(	CTTC L Q	A G	GTTI V S	CTGC A	G 138 440	0
138 44	1 <i>1</i> 1 1	ATG M	CA Q	GC:	ACC	AGI	ACA( r 1	TGC L	T GC	AAG I	TGAC	PAG	AGA E I	CTG	GG(	G TG V	GAG	GCGG A.A	C T	GCAC A	SCCTC A S	C 144 460	.0
144 46	1 .	GC( A	IAS	CT S	CTC	TG	GCC A	CGCA R T	.c co	CTG( L 1	CTGG7 L V	rc 1	rtt(	OAAE 7 E	etg J	C AC Q	CAG Q	CCCI P I	TT C	CTC L	TTCNI F X	G 150 480	) O )
150 48	)1 31	CT(	CTC W	GG D	AC(	C AG Q	CAG Q	CAC <i>I</i> H I	A G	TTC F	CCTG' P V	rc !	TTC	ATG(	GGG G	C G R	AGTA V	TATY.	SA (	P	AGGG( R A	CC 156 500	50 0
																						GC 16:	
16	21	AG	cc	CTC	3CT	G CI	GCC	TGC	CT G	GAC	TTGC	cc	CTG	CCA	.cci	rc c	TGC	CTCA	GG '	TGT	CCCT	AT 16	80
16	81	cc	AC	CA	<b>AAA</b>	G G	3CT(	CCTG	AG C	GTC	TGGG	CA	AGG	GAC	CT	GC I	TCT	ATTA	GC	CCT'	rctcc	AT 17	40
17	41	GC	3CC	CT	GCC	CA T	GCT	CTCC	AA 1	ACC2	CTT	· PTT	GC <i>I</i>	\GC1	L.L.L.	CT (	TAG	TTC#	LAG	TTC.	ACCAG	BAC 18	300
18	301	T	CT?	AT!	AA!	TA A	AAC	CTGA	CA (	GAC	CAT :	182	6										

1	TC	CT	CC.	ACC	ET	GC'	TGG	;cc	CCI	· G	GAC	ACC	CTCI		TC	AC	CAT M	GT W	G	GTTC F	CTC L	GT V	TCT L	GTG C	CC L	TC	50 8
61 9							GG( G			: 1	rgg1 G	'GC' A	rgc(	G (	CCC P	CC P	GAT I	TC Q	. 2	AGTC(	CCG( R	GAT I	TGT V	GG(	SAE O	GC	120 28
121 29	TG W	GG E	AG	TG' C	TG E	AG	CA( Q	GC# H	ATT S	: (	CCAC Q	GCC P	CTG( W	G (	CAG Q	GC A	GG( A	CTC L		Y Y	CCA' H	TTT F	CAG S	CAC T	CTI I	TTC	180 <b>4</b> 8
181 49									gg V		GCA( H	CCG R	CCA Q	G	TGC W	GT V	GC' L	TCA T	. (	CAGC A	TGC A	TCA H	TTC	CA'	TC	AGC S	240 68
241 69	GZ D	AC <i>l</i>	LA.I	ATT Y	CC Q	ÀC	CT L	CT(	GGC L	T (	GGG' G	TCG R	CCA H	C	AA( N	CTI L	GT F	TTC	3	ACGA D	CGA E	AAA N	CA(	CAG A	CC	CAG Q	300 88
301 89					TG V			TG. E		G	CTT F	CCC	ACA H	Ċ	CC' P	TG( G	GCT F	TC.	A. N	ACAT M	GAG S	ECT L	CC	rgg E	AG	AAC N	360 108
361 109							AGC A	AG D	ACC	SA E	GGA D	CT). Y	ACAC S	SC	CA H	CG.	ACC I	TC	A M	TGCT L	GC1	CCG R	CC	TGA T	CA	GAG E	420 128
421 129									CAC		TGC A	TG' V	rgaj K	AG	GT V	'CG' V	TGC I	EAG E	T L	TGC(	CAC T	CNA X	. GG E	AA I	ecc	GAA E	480 148
481 149							CT( C	TT I	TG	GC A	TT(	CG G	GCT( W	GG	GG G	CA S	GCZ	ATC I	G E	AAC P	CAG E	aga <i>i</i> N	TI	TC	rc <i>i</i> S	TTT F	540 168
				TG. D		C 1	ecc. Q	AG'	rgt C	GT V	GG: D	ACC L	TCA K	AA	A ⁷	rcc	TG	CCI P	A N	ATG. D	ATG E	AGT(	G CD: 3	IAA C	AAI K	AGCC A	600 188
				227 Q					aca r		CT	TCA M	TGC L	TG	T(	GTC V	STC 7	GG <i>I</i> G	AC H	ACC	TGG E	AAG(	3 T(	GC 3	AA K	AGAC D	208
66 20	1. i	AC( T	CTC	GTG V	TG	G (	GTG D	AT	TCA S	.GG G	G G	GCC	CGC	TG	A' M	TGT	rgt C	GAT D	rG G	GTG	TGC L	TCC. Q	A A(	GGT G	GT V	CACA T	720 228
72 22	1	TC. S	TA W	GGG	GC 3	T : Y	DOA	TC 7	CCI P	TG C	TG G	GC <i>I</i>	ACCC		A N	AT.	aag K	iCC' P	ri S	CTC	TCC	SCCG V	тс	aga R	GT V	GCT(	3 780 248
78 24	11	TC S	TT Y	)TA	STG J	K	AGT V	rgg V	ATC I	GF E	GG	SAC	ACCI	ATI I	A.G.	CG	GAC E	SAA: N	CT	r cci	rgaj	ACGC	c c	AGC	ccc	TGT:	C 840 263

### FIG. 25A

1 (	CTG'	TGC	AT( M				TCC S		GCC P	CC(	CTC L	TA	GA(	GCT L	CC# Q	AT S	CC	TC( S	AAC N	Q Q	GAG S	iCC. Q	AGC L	TC	60 18
61 19						GCT A	ACC T	GC A	CTC	etg. D	ACA N	Ta	GC A	TCC P	CAGI E	AAG A	C	CTG( W	GA( D	CCT L	GCT L	rgc H	ACA	LGA R	120 38
121 39					CA	TTI F	TAT	CAT I	CT(	CCA I	TCI	TGT	TT F	CT F	rcg G	GCC L	T	CCT. L	AGG G	GAA N	CC'	rtt F	OTT?	STC J	180 58
181 59	CT(	TT L	GGI V	CT F	TC	CT(	CT L	GCC P	CC R	GGC F	:GG(	CAA Q	CI	GA. N	acg V	TGG	C	AGA E	AAT I	CTA Y	. CC	TGC	€CC2 A I	AAC N	240 78
241 79	CT(	GGC A	AG( A	CCT S	CI	GA'	rct L	GGT V	GT F	TTC	etc 7	TTG L	G(	GCT L	TGC P	CCI	T	CTG W	GGC A	AGA E	GA N	ATA : 1	ATC' I	TGG W	300 98
301 99	AA N	CC#	GT'	TTA N	. <b>A</b> C	CTG W	GCC P	TTI F	· co	GA(	GCC A.	CTC L	C'	rcı C	GCC	GT(	3 I	CAT I	CAJ N	A <b>T</b> GC	G GC	TC.	ATC I	aag K	360 118
361 119	GC A	CAI	L L	TGT I	T T	CAT I	CAC S	CAT	r c:	rtc F	CTG L	GTC V	G V	TGC	SCCI	ATC. I	A ( S	GCC: Q	AGG: D	ACC( R	G C!	rac Y	CGC R	GTG V	420 138
421 139	. CI	'GG' V	rgc H	ACC	C C P	TAT M	POP A	CCA( S	G C	GGA G	AG( R	GCA(	3 C	:AG(	CGG R	CGG R	A (	GGC Q	AGG A	CCC R	G G	STC V	:ACC	CTGC C	480 158
481 159	L G'	rgc L	TC#	ATC'	T G W	GG! V	ott V	TGG G	G G	GGC G	CT L	CTT(	G <i>I</i>	AGC.	ATC I	CCC P	A T	CAT F	TCC	TGC	T G	CG# R	ATC(	CATO	540 178
54: 17:	1 C. 9 Q	AAG A	, ,	GTC V	C (	CAG. D	ATC L	TGA N	A C	ATC I	CAC T	CGC A	C :	rgc C	ATC I	CTC L	℃ L	TCC I	TCC	CCCC	A I	GA( E	GGC A	CTG( W	3 600 198
60 19	1 С 9 н	ACT	r <b>TT</b>	GCA A	A ( R	GGA I	TTC 7	TGC	GA C	ett. L	AAA N	TAT. I	· T	CTG L	GGT G	rtt(	CC L	TCC	CTAC	CAC P I	CT (	igc' A	TGC A	GAT I	C 660 218
66 21	1 G	STC'	PTC F	TTC F	CA . N	ACT Y	AC(	CACI	AT (	CCT L	GG( A	CCT( S	CC	CT( L	GCG/ R	AAC T	GC R	GG	GAG E	GAG( E '	GT ( V	CAG S	CAG R	GAC T	A 720 238
72 23	21 2	AGA R	GTG V	SCG(	G G	GG(	CCG.	aag K	GA '	TAG S	CA K	AGA( T	cc	AC T	AGC A	GCT L	GA I	TC	CTC L	ACG T	CT (	CGI V	'GGI V	rtgc A	C 786 258
78 25	81 ' 59 '	TTC F	CT(	GT V	CT C	GC'	rgg W	GCC A	CC P	TT# Y	ACC. H	ACT F	TC	TT F	TGC A	CTI F	CC L	TG	gaa E	TTC F	TT L	ATT F	rccz Q	aggt V	SG 84 27
8	41	CAI	\GC	AGI	cc.	GA	GGC	TGC	TT	TT	GGG	AGG	AC	TT	CAI T	TGI D	ACC	TC	GGC G	CTG	CA Q	AT'	TGG A	CCAJ N	AC 90 29

### FIG. 25B

901 299		TGC A			CAG S	CTC S	CCT L	GAAT N	CC.	AGT. V	TAA I	TT Y	atgt V	CTI F	TGT V	GGG G	CCG R	GCTC L	960 318
961 319			CA K		GGA E		TTA Y	TAAA K	CA Q	ATG C	CAC T	CC P	CTA! K	AAA( S	TCT L	TGC A	TCC P	AATA I	1020 338
1021 339	TTC S	ATC S	CCC H	GA <i>F</i> K			CTI F	CCAA Q	CI L	TTI F	CTG W	GC R	GGA.	ATT: *	AAAA	CAG	CAT	PTGAA	1080 353

1081 CC 1082

# FIG. 26A

1	СТ	GTO	3CA	TGG	C	ATC	'AT	CCI	G (	3CC	ccc	TC:	ΓA	GAG	CT	CCA	TA	C	CTCC	CAAC	CCA	GAG	CC.	AGC	TC	60
ī	-	-				S	S	V	V	P	P	L		E	L	Q	S		s	N	Q	s	Q	L	•	18
61 19	TI F	CC P	CTC	LAA: 1	A. A V	TGC A	ATS T	CG	GC (	CTG C	TGA D	CA. N	AT	GC:	P P	AG2 E	AAG A	C	CTG( W	GGA( D	CCT L	GC:	rgc H	ACA F	LGA R	120 38
.21 39	G7	rgc L	TGC I	CG	A. C	AT.	TTA I	ATC.	TA I	CTC S	CAT I	CT C	GT	TT(	CTT F	CG( G	GCC L	T	CCT.	AGG G	GAA N	CC'	rti F	TTY 7	STC J	180 58
L81 59	C!	rgt L	TG(	STC'	T?	rcc' L	TC(	CTG L	CC P	CCG R	GC(	GGC Q	AA	CT L	ga <i>r</i> N	v V	TGC	; ;	AGA E	AAT I	CTA Y	CC	TGC I	SCC:	AAC N	240 78
2 <b>41</b> 79	C	TGC	CA(	GCC A	T (	CTG D	AT(	CTG L	GT V	GTI F	TG' V	TCI I	TG	GG G	CTI L	rgc P	CCT	r 1 ?	W W	GGC A	:AGA E	GA N	AT2	ATC I	TGG W	300 98
301 99	. A	AC(	CAG Q	TTI F	· A N	ACT W	'GG I	CCI	TTT F	CG(	GAG A	CCC	CTC L	CI L	CTY C	GCC F	GT(	G : V	rcan I	CAZ N	ACGG	GG:	TC.	ATC I	aag K	360 118
361 119	L G	CC	AAT N	TTC L	F	TC#	ATC	AG(	CAT I	CT F	TCC L	TG(	GTG V	G1	rgg A	CCI	ATC.	A ( S	GCC2 Q	AGG! D	ACCO R	CT	rac (	CGC R	GTG V	420 138
42: 13:	1 (	CTG L	GTC V	CA(	CC P	CT2	ATG M	GC(	CAG S	CG G	GAA F	.GG	CAC Q	C Q	AGC R	GG(	CGG R	A R	GAC. Q	AGG A	CCC(	3 G(	GTC V	ACC T	CTGC C	480 158
48 15	1 (	GTG V	CT(	TAC I	CT W	GG	GTI V	rgt V	GGG G	G G	GC(	CTC L	TT(	S A	GC#	TC	CCC P	A T	CAT F	TCC L	TGC	I G	CG <i>P</i> R	ATC S	CATC	540 178
54 17	1 9	CAF Q	A A	CGT V	CC P	CA	GA'	rct L	GAA N	C.F	ATC	ACC T	GC( A	C T	GCI	ATC	CTC L	C L	TCC	TCC	CCC H	A T	GAC E	GC A	CTGC W	9 600 198
60 19	1	CAC H	CTT F	TGC A	AA R	. GG	AT I	TGI V	GGI E	A. G ^r . 1	rta L	aat N	TAT I	T C	TG(	GGT G	TT( F	CC L	TCC	TAC	CAC	Т G	GC' A	IGC A	GAT(	C 660 218
66	51 L9	GT V	CTT F	CTI F	CA N	. AC	TA Y	.CCI	ACA'	T C	CTG L	GC(	CTC S	c c	CTG L	CG <i>P</i> R	AC T	GC R	GGC	GAG(	GAGG E V	T (	AG S	CAG R	GAC. T	A 720 238
7: 2:	21 39	AG R	AGI V	GC(	GGG	GG	GCC P	GA. K	AGG. D	АТ	AGC S	:AA K	GAC T	:C	aca T	GC( A	CT L	GA I	TC	CTC: L '	ACGO T I	CT (	CGT V	GGI V	TGC A	C 780 258
7 2	81 59	TI F	CC!	rgg'	rc?	r G	W CTC	GG A	CCC	C T	TAC Y	CCA H	CTI F	rc :	TTI F	GC(	CTT F	CC L	TG	gaa E	TTC'	PT :	ATI F	CC2 Q	AGGT V	G 840 27
_				~~ ~	<b></b>		7 C	~~m	·CCIT	יחי יו	ካጉርታ(	3C 3	.cc	AC	ጥጥር	'AT	TGA		TG	GGC	:CTG	CA	ATT	'GG	CAF	AC 90 29

### FIG. 26B

901 299	TT(	CTT F	TGC A	CT F	TCAC T	TAA N	CAG S	CTC	CCT L	GAAT N	CC.	agt V	AAT I	· TT Y	ATGT V	CTT F	TGT V	GGG G	CCG R	GCTC L	960 318
961 319	TT F	CAG R	GAC T	CA K	aggt V	CTG W	GGA E	ACT L	TTA Y	TAAA K	CA Q	ATG C	CAC T	CCC P	CTAA K	AAG S	TCT L	TGC A	TCC P	AATA I	1020 338
1021 339		TTC S	ATC S	ccc н	ATAG R	gaa K	AGA E	TAA I	CTI F	CCAA Q	CI L	TTI F	CTC W	GGC R	GGAA N	.TT?	AAAA	CAC	CAT	TGAA	1080 353

1081 CC 1082

# FIG. 27A

1 1		GTC	CA' M	TGG A	C	ATC	ATC S	CTC W	3 G	CCC P	CC'	TCT L	'A (	GAC E	CT L	CCA Q	AT S	CC	CTC( S	CAA N	CCA Q	G	AGC S	CA( Q	GCT L	°C 6	18 0
61 19	TI F	P	CTC Q	AAA N	. A.	TGC A	TAC T	GG: A	c c	TGT C	rga D	.CA <i>I</i> N	AT	GCT A	rcc P	AG <i>I</i> E	AAG A	C	CTG W	GGA D	CCI L	r G	CTC L	CA H	CAC R	BA :	120 38
.21 39	G7 V	rgc' L	rgc F	CGA	. c	ATT F	TAT I	rca I	т (	CTC( S	CAT I	CTC	GT	TT F	CTI F	CG( G	ECC L	T	CCT L	'AGC G	GA. N	A. C	CT: L	rtt F	TG: V	rc	180 58
L81 59	C.	rgt L	TGC /	TCI	C 1	rcci L	CC L	rgc P	:C (	CCG R	GCG R	GC. Q	AA	CT L	ga <i>i</i> N	ACGʻ V	TGG A	; C	AGA E	AA7 I	CT. Y	A (	CT	GGC A	CA. N	AC	240 78
241 79	C	TGG A	CAC	€CC!	r (	CTG/ D	ATC L	TGC 7	· FT (	GTT F	TG1 V	rct L	TG	GG G	CT'	rgc P	CCI	C I	CTC W	GGG A	CAG E	A (	gaa N	TAT I	TOT W	GG	300 98
301 99	L A	ACC	:AG' }	rtt. F	A 2 N	ACT( W	GGC E	CT	PT	CGG G	A A	CCC	CTC	L	CT C	GCC F	GT(	G 7	CA'	TCA N	ACG	G	GGT V	CA!	rca K	AG	360 118
363 119	1 0	CCI	TA,	TTG L	T F	TCA I	TC#	AGC.	AT I	CTT F	rcc L	TGC	otg J	G:	rgg A	CCI	ATC:	A (	GCC. Q	AGG I	ACC	CG R	CT# Y	CC R	GC(	etg /	420 138
42: 13:	1 ( 9 I	CTG	GTG V	CAC H	C P	CTA M	TG(	GCC A	AG S	CG( G	gaa R	s (	CAG Q	Q Q	AGC F	:GG(	CGG R	A R	GGC Q	AGG	CC(	CG R	GG:	ADT T	.ccr	rgc c	480 158
15	9 1	V	L	I	W	7	7	V	G	G	I	: د	L	S			P	T	·					_		-	540 178
54 17	19	CAA Q	GC( A	CGT( V	CC P	CAC	GAT O	CTC L	SAA N	CA	TC	acc T	GCC A	C T	GC.	ATC I	GTC V	L	TCC	CTC	CCC P	CA H	TG E	AGC	SCC	TGG W	600 198
60 19	1	CAC H	TT F	IGC. A	AA R	GG	ATI I	GT( V	GGA E	. GI	TA	AAT N	TA? I	r c	TG L	GGI G	TTC F	CC L	TCC	CTA L	CCA P	CT L	GG A	CTC	GCG A	I	218
66 2:	61 19	GT(	CTT F	CTT F	CA N	AC	TAC Y	CA H	CAT I	C	CTG L	GC( A	CTC S	c (	CTG L	CG <i>I</i> R	AAC( T	GC R	GG	GAG E	GAC E	GT V	C.F.	GC.	AGC R	T	720 238
7:	21 39	AG: R	agt V	GCG R	GG	GĢ	CC(	GAA K	GG <i>I</i> D	A T	agc S	AA( K	GAC T	C	ACA T	GC( A	GCT L	GA I	TC	CTC L	AC( T	GCI L	, CC	STG V	GT7 V	rgc A	C 780 258
7	81 59	TT F	CCI L	GGT V	רכז כ	GC	TG W	GGC A	CC(	С Т	TAC Y	CCA H	CTI F	C	TTI F	rgc A	CTT F	CC L	TG	GA/ E	YTT F	CTT L	r A'	TTC F	CA( Q	ggt V	G 840 278
8	41	CA	AG	CAG	rc	C G/	AGG	CTC	CT	Т Т	TG(	GGA E	.GGJ	AC	TT(	CAT I	TG# D	ACC	TC	G G	CCT L	GC:	A A	TTC L	GC A	CAA N	C 900 29

### FIG. 27B

901 299		CTT:	rgc A	CT F	TCAC T	TAA N	CAG S	CTC S	CCT L	GAAT N	CC P	agt. V	AAT I	TT Y	ATGT V	CTT F	TGT V	GGG G	CCG R	GCTC L	960 318
	TT F	CAG R	GAC T	CA K	AGGT V	CTG W	GGA E	ACT L	TT# Y	ATAAA K	CA Q	ATG C	CAC T	CC P	CTAA K	AAG S	TCT L	TGC A	TCC P	AATA I	1020 338
1021 339		TTC S	ATC S	ССС Н	ATAC R		AGA E	raa I	CTT F	rccaa Q	C1	TTI F	CTC W	GC R	GGAA N	\TT <i>I</i> *	AAAA	CAC	CAT	TGAA	1080 353
1081	CC	10	82																		

### FIG. 28A

1 1	C	rgi			GG A		ATC S	ľA:	rCC	TG W	GC	CC	CC P	TCT L	FA	GA E	GC:	rcc	AA )	T S	CC	rcc s	AA N	CC# Q	G	AGC S	CA Q	GCT L	rc (	50 18
61 19	T' F	rco 1	CCI	rc <i>z</i> Q	AA N	A	TG( A	CT)	AC( T	GGC A	CI	rgt C	GA D	CA. N	AΤ	GC A	TC P	CA(	GA <i>I</i> E	AG A	CC	TGC W	GA D	CC'	r G	CT( L	ЭСА Н	CA(	GA	120 38
121 39	G	TG	CT( L	GC(	CGA T		AT F	TT.	AT I	CAT I	C'	TCC S	I I	CT	GT	TI F	CT F	TC	GG(	CC L	TC	CT L	AGC G	GA. N	A. (	CCT L	TTI F	TG V	TC	180 58
181 59	. C	TG	TT L	GG' V	TCI	. 1	CC	TC	CT L	GCC P	C C	CG( R	GC(	GGC C	AA:	C.	rga 1	LAC I	GT V	GG A	C	AGA E	AAT I	TOT Y	A (	CCT L	GG( A	CCA N	AC I	240 78
241 79	L (	СТG С	GC A	'AG A	CC'	r ( s	CTC I	AT	rci L	GG: V	r G	TT F	TG V	TCT 1	PTG L	G G	GCT	rTG S	CC P	CT F	T	CTG W	GG(	CAG E	A	gaa N	'AT' I	TCI V	rgg N	300 98
30: 9:	1 <i>1</i> 9 1	AA( N	CZ Q	GT F	TT	A . N	COA I	rg( N	GC(	CTT' F	r (	G G	AG A	CC	CTC L	C L	TC'	rg( C	CCG R	otg V	<b>T</b>	CAT I	CA N	ACC	G G	GG7 V	rca I	TCI	AAG K	360 118
36 11	1 9	GC( A	CA. N	ATT 1	rtg L	T F	TC.	TA I	CA(	GCA I	T (	CTI F	CC	TG	GT( V	3 G V	TG 7	GC( A	CAT I	PCP S	. G	CC2 Q	AGG I	AC(	CG R	CT.	ACC F	:GC	gtg V	420 138
42 13	19	CT L	GG V	TG	CAC H	C P	CT	TA M	'GG A	CCA	.G	CG( G	GAZ I	AGG R	CA Q	G (	CAG Q	CG R	GC(	GGZ 1	A. G R	GC. Q	AGC	ecc	CG R	GG V	TCI	ACC T	TGC C	480 158
48	31 59	gi V	'GC	TC	AT(	CT W	GG	V V	PTC V	TGC	3G 3	GG G	GC	CT( L	CTT L	G	AG( S	IA:	CC P	CC.	A (	CAT F	TC	CTG L	CT L	GC F	:GA' l	TCC S	ATC I	540 178
5. 1	41 79	CZ Q	AA.	SCC	GT V	CC P	C#	AGI D	OTA I	CTG:	AA N	CA	TC	AC T	CGC A	C	TG( C	CAT I	CC	TG	C'	rcc I	TC	CCC P	CA H	. TO	gag E	GC( A	CTG( W	3 600 198
6 1	01 99	C.	AC'	rr7 F	rgc A	AA R	G	GA' I	TT(	gtg V	GA E	GI I	TA J	AA N	TAT I	· T	CT L	GG( G	GTT I	rTC ?	C L	TC(	CTA L	CC2 P	L L	: G(	GCT A	GC A	GAT I	C 660 218
6	61	. G	TC	TT( F	CTI F	CA N	A	CT Y	AC	CAC H	TA	CC	CTC L	GGC A	CT S	cc	CT L	GC R	GAI	ACC T	C R	GG(	GAG K	GA( E	GGT V	r C	ago S	:AG R	GAC T	A 720 238
3	721	L A	.GA	GT V	GC(	3G(	3 G	GC I	CG	AAC K	GA D	. <b>T</b>	AG( S	CA! K	AGA T	CC	AC T	CAG A	CG	CT( L	GA I	TC	CT( L	CAC T	GC'	r c	GT( V	3GI V	TGC A	C 780 258
•	78: 25:	1 :	rtc ?	CI L	'GG' V	TC'	r (	C?	N rgc	GGC(	CCC P	T	TA Y	CC:	ACT F	TC	T'	rtc I	CC	TT F	CC L	TG	GA. E	ATI F	CT L	T A	TT F	CC <i>I</i> Q	AGGT V	rg 849 27
	84	1 (	CA	AG(	CAG	TC	C (	GA	GG(	CTG C	CTT	г т	TC W	GG E	AG(	AC	T	TCI	ATT I	'GA D	CC L	TC	G G	CCI	GC Q	'A 1	ATT L	GG(	CCA.	AC 90 29

### FIG. 28B

901	TT(	CTT	rgc	CT	TCAC	TAA	CAG	CTC	CCT	GAAT	CC	AGT	'AAT'	TT	ATGT	CTI	TGT	GGG	CCG	GCTC	960
299		F	A	F	T	N	S		L	N	P	٧	I	Y	V	F	V	G	R	L	318
										•							•				1000
961	TT	CAG	GAC	CA	AGGT	CTG	GGA	ACI	TTA	AAATA	CA	ATC	CAC	CC	CTAA	AAG	TCT	TGC	TCC	AATA	1020
319		R		K	V	W	E					С		P	K	S	L	A	P	I	338
																	•				1000
1021	TC	TTC	ATC	CCC	ATA	<b>GAZ</b>	AGA	LAA	CTI	CCAA	CJ	r <b>T</b> T	CTG	:GC	GGAZ	TT	AAA	CAG	CA	MGAA	1080
339		s	S	H		K		I			L	F	W	R		*					353
1081	CC	10	82																		

### FIG. 29A

		YTY 1				IC P			AAC K	TAE	ATC S	LAA! M	GT F	TT	CT L	GT(	CTG V	TT	T C	GTGA E	GG.	ACT	rc s	CGT V	GCC P	CA T	cc (	50 20
61	. 1	AC(	3G(	cc'			TC	AGO	GC	CGA	CAT	GC.	rca N	AT	GT V	CA T	CCI	TG	C	AAG( G	GGC P	CC	AC T	TCT L	LAT' N	ACG G	GG	120 40
121		<b>A</b> C	C (Tr	սար	GC	F CC	AG	AGO	CAA	ATG	cco	ccc	AAC	etg	GΑ	GT	GG(	CTG	G	GCT	GGC	TC	AA	CAC	CA	TCC	CAG	180
4:	L '	T	F		A	Q		S	K	С	P	Q	7	,	E	W	1	<b>.</b>	G	W AGA	L	,	N	Т	1			80
6	1	P	P	)	F	L		W	V	L	F	V	]		A	1	•	L	E	N	1	-	F	V		2	•	80
8	1	V	F	•	С	L		Н	K	S	S	C	'	r	V	2	<b>Y</b>	E	Ι.	TCT Y	1		G	N	1		га.	100
30 10	1	GC A	AC 1	GC <i>I</i> A	GA D	CC L	T	GAT I	CCI	GGC A	CT	GCG	GG G	CTG L	P	CC:	PTC ?	TG( W	G A	CCA	TC	ACC T	TA:	CT S	CCA N	AC:	AAC N	360 120
3 <i>6</i>	1	T'	rco 1	GA(	OTC W	GGC L	T	CTI F	TG( G	EGGA E	. GA	CGC	CTC L	TGC C	C R	GC	gtg V	GT( V	GA N	ATO	SCC.	AT:	TAT	CT	CCA	lTG 1	AAC N	420 140
42	21	C,	ľĠ	TA: Y	CA(	GCA S	. G	CAT I	CTO C	STTI F	C CC	TG!	ATG M	CTC L	G G V	TG 7	ag( S	EAT I	CG D	ACC	CGC R	TA( Y	CCT L	GG A	CCC	CTG L	GTG V	480 160
4:	31 61	A	AA	AC T	CA M	TGT	r c	CA?	POT G	GCC(	3 G/ 1	ATG	CG( R	CGG( G	C G V	GTG 1	CG( R	CTG W	GG	CC	aag K	CT L	CTA Y	C.P.	AGC!	rtc L	GTG V	540 180
5 1	<b>4</b> 1 81	. A	TC	TG W	GG G	GG'	r c	ATE T	CGC L	TGC'	r c	CTG L	AG( S	CTC. S	A (	CCC	AT M	GCI L	rgc Y	FTG /	TTC F	CG R	GAC T	C C#	lTG 1	AAC K	GAG E	600 200
6 2	01 01	. I	'AC	:AC	CG I	AT(		AGG G	GCC	ACA	A C	GTC V	AC T	CGC A	T :	TG7 C	rgt V	CAT I	rcz	A.GC	TAC Y	CCC P	ATC S	C C	CTC L	TA I	CTGG W	660 220
6	61	LC	SAZ	AG:	rgi I	TC	A (	CCA N	ACA	TGC 1 L	T C	CTC	SAA N	TGI V	ic (	GT( V	G G	CT?	TC	C TG L	CT(	SC(	CCC'	TG.	agt S	'GT' V	CATO	720 240
-				~m	n-or	ncc		CCI	ጥርረ	יאכז	T. C	יאייעי	מר)ב	.cci	rG	СТ	GCG	GA	aС	A AC	GA	GA!	rgc	A G	AAG	TT	CAAC	3 780 260
		٠.	~ ~ ~	~ 3	mc.	~ > C		ccc	2 <b>2</b> C	ACC I	AG (	3GC(	CAC	:GG:	rg	СТ	AGT	rcc	TG	GT	rgt	GC'	IGC	T G	CT?	ATT	CAT	C 84
:	26	1	E	I	•	Q	T	1	Ξ	R I	₹ ~a (	A TAS	T CAC	V CA		L	v cc:	rgg	AT	:A C	v GCT	GC.	ATC	.c. c	cto	cec	CAT	C 90
		-	-			· ·			<b>-</b>	 E	``	т	C	T.		┎	T.	D	)	т	L	H	F	ł	L	G	I	30

#### FIG. 29B

901 301			CAGO S	CT (	GCCA( Q	GGA(	GA E	GCG( R	CAT(	CATC	GAT D	rgti V	YAA I	T T	CACA Q	GAT(	CGC A	CTC( S	F	CATG M	960 320
961 321			CAG( S	CA N	ACAG S	CTG(	CCT L	CAA N	CCC.	ACTG L	GT(	GTA Y	CGT( V	GA I	TCGT V	GGG G	CAA K	GCG R	CTT F	CCGA R	1020 3 <b>4</b> 0
1021 341			GTC' S	TT W	GGGA E	GGT V	GTA Y	CCA Q	.GGG G	AGTG V	TG C	CCA Q	gaa K	AG G	GGGG G	CTG C	cag R	GTC S	AGA E	ACCC P	1080 360
1081 361			GAT M	GG E	AGAA N	CTC S	CAT M	GGG G	CAC T	ACTG L	CG R	GAC T	CTC S	CA I	TCTC S	CGT V	GGA E	ACG R	CCA Q	GATT I	1140 380
1141 381				GC Q	AGGA D	CTG W	GGC A	AGC G	GAG S	CAGA R	CA Q	GTG *	AGC	AA	ACGO	CAG	CAG	GGC	TGC	TGTG	1200 391
1201	AA	TTT	GTG	TA	AGG/	\TTG	BAGG	GAG	CAGI	TGCI	TI	TC	AGCA	ATG	GGC	CCAC	GAA	TGC	CAF	AGGAG	1260
1261	. AC	CATO	CAT	rgc	ACG	ACCI	TGG	GA	AATO	Gagtt	GZ	ATG:	rctc	CCG	GTA	AAA	CACC	GG2	AGA	TAAT	1320
1321	. T(	CTC	3CC(	CTG	ccc	TAA	PTTG	CA	GGG	AGCAI	G	<b>SCT</b> (	GTG/	AGG	ATG	GGG'	IGAA	CT	CAC	GCACA	1380
1381	L G	CCA	AGG	ACT	CCA	AAA'	CAC	: AA	CAG	CATT	A C'	TGT	TCT'	TAT	TTG	CTG	CCAC	: AC	CTG	AGCCA	1440
144:	L G	CCT	GCT(	CCI	TCC	CAG	GAGI	GG	AGG.	AGGC	C T	GGG	GGG.	AGG	GAG	AGG	AGT	AC	TGA	GCTTC	1500
150	1 C	CTC	CCG	TGI	GTT	CTC	CGT	C CC	TGC	CCCA	G C	AAG	ACA	ACI	TAG	ATC	TCC	A GG	AGA	ACTG(	2 1560
156	1 C	ATC	CAG	CTI	TGG	TGC	AAT	G GC	TGA	.GTGC	A C	AAG	TGA	GTI	GTI	ecc	CTG	G GT	TTC	TTTA	A 1620
162	1 T	CTA	TTC	AGC	C TAG	BAAC	TTT:	G A/	\GGA	CAAT	T T	CTI	GCA	TTZ	A AT <i>I</i>	<b>LAA</b> G	GTT	A AG	ccc	TGAG	G 1680
168	1 6	GTC	CCI	'GA'	DAA 1	CAAC	CTG	G A	SACC	AGGA	T 1	TTT	ATGG	CTC	c cc	CTCA	ACTG.	A TO	GAC	:AAGG	A 1740
174	1 (	GT	CTGI	:GC(	C AAJ	AGAZ	AGAA	T C	CAAT	raago	A C	CATA	ATTO	SAG	C AC	rtgo	CTGT	A T <i>i</i>	ATGO	CAGTA	T 1800
180	1 :	rga(	3CA(	CTG	T AG	GCA!	AGAC	ic c	AAG/	AAAGA	LG 1	AAG	GAGO	CCA	Т СТ	CCA!	PCTT	GA	AGG2	AACTC	A 1860
186	51 2	AAG.	ACTO	CAA	G TG	GGA	ACG#	.C T	GGG	CACTO	SC (	CAC	CAC	CAG	A AA	GCIV	GTTC	Kg A	CGA	GACGG	T 1920
192	21 (	CGA	GCA	GGG	T GC	TGT	GGG]	IG A	TAT	GGAC	AG (	CAG	AAG	GGG	G AG	ACC.	AAGO	FT T	CCA	GCTCA	A 1980
19	81	CCA	ATA	ACI	'A TT	GCA	CAA	CC A	.CCT	GTCC	CT	GCC	TCA	GTI	ec cc	TTT	TATO	ST A	ACA	TGAAC	ET 2040

#### FIG. 29C

2041 CGTTGTGAGG GTTAAAGGCA GTAACAGGTA TAAAGTACTT AGAAAAGCAA AGGGTGCTAC 2100 2101 GTACATGTGA GGCATCATTA CGCAGACGTA ACTGGGATAT GTTTACTATA AGGAAAAGAC 2160 2161 ACTGAGGTCT AGAAATAGCT CCGTGGAGCA GAATCAGTAT TGGGAGCCGG TGGCGGTGTG 2220 2221 AAGCACCAGT GTCTGGCACA CAGTAGGTGC TCATTGGCTC CCTTCCACCT GTCATTCCCA 2280 2281 CCACCTGAG GCCCCAACCG CCACACACA AGGAGCATTT GGAGAGAAGG CCATGTCTTC 2340 2341 AAAGTCTGAT TTGTGATGAG GCAGAGGAAG ATATTTCTAA TCGGTCTTGC CCAGAGGATC 2400 2401 ACAGTGCTGA GACCCCCAC CACCAGCCGG TACCTGGGAA GGGGGAGAGT GCAGGCCTGC 2460 2461 TCAGGGACTG TTCCTGTCTC AGCAACCAAG GGATTGTTCC TGTCAATCAA TGGTTTATTG 2520 2521 GAAGGTGGCC CAGTATGAGC CCTAGAAGAG TGTGAAAAGG AATGGCAATG GTGTTCACCA 2580 2581 TCGGCAGTGC CAGGGCAGCA CTCATTCACT TGATAAATGA ATATTTATTA GCTGGTTGGA 2640 2641 GAGCTAGAAC CTGGAGAGCT AGAACCTGGA GAACTAGAAC CTGGAGGGCT AGAACCTGGA 2700 2701 GAGGCTAGAA CCAAGAAGGG CTAGAACCTG GAGGGGCTAG AACCTAGAGA AGCTAAAACC 2760 2761 TGAGCTAGAA GCTGGAGGAC TAGAACCTGG AGGGCTGGAA TCTGAAGGGC TAGAACCTGG 2820 2821 AGGGCTGGAA TCTGGAGAGC TAGAACCTGG AGGGCTAGAA CCTGGAGGGC TAGAACCTAG 2880 2881 AAGGGCTAGA ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG 2940 2941 GAGGGCTAGA ACCTAGAAGG GCTAGAACCT GGAGGGCTAG AACCTGGCAG GTTAGAACCT 3000 3001 AGAAGGGCTA GAACCTGGAG AGCCAGAACC TGGAGGGCTA GAACCTGGAA GGGCTAGAAC 3060 3061 CTGTAGAGCT AGAACATGGA GAGCTAGAAC CCGGCAGGCT AGAACCTGGC AAGCTAGAAC 3120 3121 CTGGAGGGAA TGAACCTGGA GGGCTAGAAC CTGGAGAATG AGAAAAATTT ACATGGCAAA 3180 3181 GAGCCCATAA ATCCTGACCA ATCCAACTCT GAATTTTAAA GCAAAAGCGT GAAAAAAAAG 3240

#### FIG. 29D

3241 ATTCCCTCCT TACCCCCAAC CCACTCTTT TTCCCACCAC CCACTCTCCT CTGCCTCAGT 3300

3301 AAGTATCTGG AGGAAGAAAA CAGGTGAAAG AAGAAGTAAA AACCATTTAG TATTAGTATT 3360

3361 AGAATGAAGT CAAACTGTGC CACACATGGT GAATGAAAAA AAAAAAAAAG AGGCTGTGTT 3420

3421 TTGTCACACA GGGCAGTCAT TCAGCACCAG AGCACGTGAT GGTCTGAGGA TCTCTTAGGA 3480

3481 GCAGAGCTCT GCCGCAATGG CCATGTGGGG ATCCACACCT GGTCTGAGGG GCAACTGAGT 3540

3541 CTGCGGGAGA AGAGCGGCCC TATGCATGGT GTAGATGCCC TGATAAAGAA CATCTGTCCT 3600

3601 GTGAAAGACT CAATGAGCTG TTATGTTGTA AACAGGAAGC ATTTCACATC CAAACGAGAA 3660

3661 AATCATGTAA ACATGTGTCT TTTCTGTAGA GCATAATAAA TGGATGAGGT TTTTGCAAAA 3720

3721 AAAAAAAAAA AAA 3733

# FIG. 30A

1	ATC	TT	CTCI	C	CCT	GGA	AG	AT .	ATC	YAA	STTT	CTC	GTC'	TGT	TC	GTG	AGG	AC	TC	CGT	3CC(	CACC	
.1	M	F	S	P	W	K		I	S	M	F	L	S	V	R	E	D	)	S	V	P	T	20
61	ACC	GCC	CTCI	· PT	TCA	GCG	CC	GA	CAT	GCT	CAAT	GT	CAC	CTT	GC	AAG	GGC	CC	AC	TCT'	TAAC	cece	120
					S															L			40
101	3.00	>mm	DO 0	•	202	~~"			000		2000	C 3 /	CMC	CCM		CCT	VCCC	·ma	•	CAC	ጉ አ ጥ/	CCAG	100
41											AGIG V									T			60
				•				•		-									•				
																						CAGC	
61	P	P	F	L	W	' 7	7 :	L	F	V	L	A	T	L	E	N	1 1		F	V	L	S	80
241	CTY	Certor.	ሮሞርረ	•	ጥርረር	'AC	. אכ	AG	CAG	ርጥር	Cacg	GТ	ദേഹ	מסמי	ADA	ጥርባ	יארכ	יידיר	GG	GAA	ССТ	GGCC	300
											Т												100
				•				•															260
											GCTG L										ÇAA N	CAAC	120
101	A	A	ט		_		<b>.</b>	Λ		G	_	•	•	••	•				•		•		
361	TT	CGA	CTG	GC	TCT	TT	GGG	GA	GAC	GCT	CTGC	CG	CGI	GGT	rga	ATO	3CC2	AT7	· TAT	CTC	CAT	GAAC	420
121	F	D	W	L	F		G-	E	T	L	С	R	V	V	N	2	<b>A</b> 3	נ	I	s	M	N	140
421	<b></b>	~m »	an a		CO1	mo	morr		CCI	~ n m		. Сп	יראנ	יי איי		n C (	مردر	ኮልረ	· ~~~	ccc	CCT	GGTG	480
141	L	Y	S	S	GC.	[ (	C	F	L	M	L	v	S	I	D	I	R :	Y	L	A	L	v	160
481	AA	AAC	CAT	GT	CCI	ATG	GGC	CG	GAI	'GC	CGGC	: GI	'GC	CTC	GGG	CC	AAG	CTO	CTA	CAG	CTT	GGTG	540
											G												180
F 4 1	. ~				Om:		ome.		000	10 h C				DCC1		mo.	mmc/	~~		CNI	א מיי	GGAG	600
181	AI	W	G	C.	GTZ	ACG P	CTC L	L	L	S	S	P	M.	L	v V	, 1G	F :	CG R	T T	M	K	E	200
-0-	_	••	Ū	Ū	•		_	_	_	_	_												
601	TA	CAC	CGA	TG	AG	<b>GC</b>	CAC	AA:	CG	CAC	CGCI	· r TC	GTG:	rca'	TCA	GC'	TAC	CC	ATC	CCI	CAT	CTGG	660
			D				H				A			I			Y		S	L	I	W	220
								•															
661	.GP	\AG	rgti E	CA	CC	AAC	ATC	CT.	CC	rga. N	ATGTO	: G:	rgg(	GCT'	TÇC	TG	CTG t.	D D	CCT T.	GAC	TGT V	CATC	240
241	. Ľ	V	r	Т		N	M	11	ъ	14	V	V	G	F			ם	F		5	٧	•	240
721	Δ(	بالمات	ኮሮሞር	ACE	CG	AΤG	CAC	· TAF	CA	rgez	AGGT	3 C'	rgc	GGA	ACA	AAC	GAG	ΑT	GCA	GA	AGTT	CAAG	780
241	T	F	С	T		M	Q	I	M	Q	v	L	R	N	1	1	E	M	Q	K	F	K	260
<b>5</b> 00			naa-			<b>.</b>				202	000m		m » ~	maa	mc			~m			ח א מים	•	940
78. 261	LG2 IE	'Aى T	LCC)	ъъ. Т	i CG	GAC E	R R	зАG R	انیانی ۵	AU. T	V V	ى د L	v V	ICC	1.00	3 T.T.	A GTG	L	L	L	F	OTAD7	280
20.		•	×	_	•	_			••	-	•	_	•	_	`	-	-	_	_	_	-	-	
84:	L A	rct	GCT	GGC	TG	ccc	TT	CCA	GA'	TCA	GCAC	C T'	TCC	TGG	AT	A CG	CTG	CA	TCG	cc.	rcgo	CATO	900
																						I	

### FIG. 30B

	CTCTC L S					GA E	GCG( R			GAC D	CGT? V		A T	CACA Q	GAT(	CGC A	CTC(	F	CATG M	960 320
	GCCTA A Y			agc S		CT L	CAA( N	CCC P	ACTG L		GTAC Y		EA I		GGG(		GCG(		CCGA R	1020 340
	AAGAA K K				GTC V		CCA(					GAAA K			CTG C				ACCC P	1080 360
	ATTCA I Q				TC( S			CAC. T		CG(		CTCC S	CA I		CGT V			CCA Q		1140 380
	CACAA H K				TG( W			GAG S		CA Q	GTG *	AGC!	AA	ACGC	CAG	CAG	GGC	TGC	TGTG	1200 391
1201	AATTT	CTGT	A AG	GAT	rtgi	AGG	GAC	AGT	TGCT	тт	TCA	GCA'	IG	GGCC	CAG	GAA	TGC	CAA	GGAG	1260
1261	ACATO	CTATG	C AC	GAC	CT	rgg	GAA	ATG	AGTT	GA	TGT	CTC	CG	GTA	AAC	ACC	GGA	.GAC	TAAT	1320
1321	TCCT	CCCT	G CC	CA	ATT'	TTG	CAG	GGA	GCAT	GG	CTG	TGA	GG	ATG	GGT	GAA	CTC	ACG	CACA	1380
1381	GCCA	AGGAC	т сс	CAA	TAA	CAC	AAC	:AGC	ATTA	CI	GTI	CTT.	TA	TTG	CTGC	CAC	ACC	TGA	GCCA	1440
1441	GCCT	GCTCC	T TC	CCC	AGG	AGT	GGA	.GGA	LGGCC	TG	GGG	GGA	GG	GAG	AGGA	GTG	ACT	GAG	CTTC	1500
1501	CCTC	CCGTG	TGT	rtc'	TCC	GTC	CCI	GCC	CCAG	CA	<b>LAGI</b>	CAA	CT	TAG	ATCI	CCA	. GGZ	\GA#	CTGC	1560
1561	CATC	CAGCT	T T(	3GT	GCA	ATG	GCI	rga(	STGCA	. C#	AAGI	rgag	TT	GTT	GCC	CTGG	GT?	TCI	Aatti	1620
1621	TCTA	TTCAG	Ю Т	AGA	ACT	TTG	AAC	GAG	CAATT	TC	CTTC	CAT	· TA	ATA	AAGO	STTA	AGO	CCT	rgagg	1680
1681	GGTC	CCTGA	T A	ACA	ACC	TGG	AGZ	ACC	AGGAT	r Ti	rt'a:	rggc	TC	ccc	TCAG	CTGA	TG	GAC	AAGGA	1740
1741	GGTC	TGTGC	C A	AAG	AAG	Taa:	cci	AAT	AAGC	CZ	ATA!	rtga	GC	ACT	TGC!	IGTA	TA'	rgcz	AGTAI	1800
1801	TGAG	CACTO	ET A	GGC	:AAC	ACC	CA	AGA.	AAGAC	BA	AGG	AGCC	TA:	CTC	CAT	CTTC	AA	GGA	ACTC#	1860
1861	L AAGA	CTCA	AG T	GGG	SAA(	CGAC	TG	GGC.	ACTGO	C C	ACC.	ACC	AGA	AAG	CTG	TTC	AC	GAG	ACGG7	1920
1921	L CGAG	CAGG	St G	CTG	TGC	GTC	AT.	ATG	GACA	3 C.	AGA	AGGC	GGG	AGA	CCA	AGG1	T TC	CAG	CTCAI	A 1980
1981	L CCAA	TAAC!	ГА Т	TGC	CAC	AACC	C AC	CTG	TCCC	r G	CCT	CAG	PTC	CCI	TTT	ATG:	r aa	CAT	GAAG'	r 2040

#### **FIG. 30C**

2041 CGTTGTGAGG GTTAAAGGCA GTAACAGGTA TAAAGTACTT AGAAAAGCAA AGGGTGCTAC 2100 2101 GTACATGTGA GGCATCATTA CGCAGACGTA ACTGGGATAT GTTTACTATA AGGAAAAGAC 2160 2161 ACTGAGGTCT AGAAATAGCT CCGTGGAGCA GAATCAGTAT TGGGAGCCGG TGGCGGTGTG 2220 2221 AAGCACCAGT GTCTGGCACA CAGTAGGTGC TCATTGGCTC CCTTCCACCT GTCATTCCCA 2280 2281 CCACCTGAG GCCCCAACCG CCACACAC AGGAGCATTT GGAGAGAAGG CCATGTCTTC 2340 2341 AAAGTCTGAT TTGTGATGAG GCAGAGGAAG ATATTTCTAA TCGGTCTTGC CCAGAGGATC 2400 2401 ACAGTGCTGA GACCCCCCAC CACCAGCCGG TACCTGGGAA GGGGGAGAGT GCAGGCCTGC 2460 2461 TCAGGGACTG TTCCTGTCTC AGCAACCAAG GGATTGTTCC TGTCAATCAA TGGTTTATTG 2520 2521 GAAGGTGGCC CAGTATGAGC CCTAGAAGAG TGTGAAAAGG AATGGCAATG GTGTTCACCA 2580 2581 TCGGCAGTGC CAGGCCAGCA CTCATTCACT TGATAAATGA ATATTTATTA GCTGGTTGGA 2640 2641 GAGCTAGAAC CTGGAGAGCT AGAACCTGGA GAACTAGAAC CTGGAGGGCT AGAACCTGGA 2700 2701 GAGGCTAGAA CCAAGAAGGG CTAGAACCTG GAGGGGCTAG AACCTAGAGA AGCTAAAACC 2760 2761 TGAGCTAGAA GCTGGAGGAC TAGAACCTGG AGGGCTGGAA TCTGAAGGGC TAGAACCTGG 2820 2821 AGGGCTGGAA TCTGGAGAGC TAGAACCTGG AGGGCTAGAA CCTGGAGGGC TAGAACCTAG 2880 2881 AAGGGCTAGA ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG 2940 2941 GAGGGCTAGA ACCTAGAAGG GCTAGAACCT GGAGGGCTAG AACCTGGCAG GTTAGAACCT 3000 3001 AGAAGGGCTA GAACCTGGAG AGCCAGAACC TGGAGGGCTA GAACCTGGAA GGGCTAGAAC 3060 3061 CTGTAGAGCT AGAACATGGA GAGCTAGAAC CCGGCAGGCT AGAACCTGGC AAGCTAGAAC 3120 3121 CTGGAGGGAA TGAACCTGGA GGGCTAGAAC CTGGAGAATG AGAAAAATTT ACATGGCAAA 3180 3181 GAGCCCATAA ATCCTGACCA ATCCAACTCT GAATTTTAAA GCAAAAGCGT GAAAAAAAAG 3240

#### FIG. 30D

3241 ATTCCCTCCT TACCCCCAAC CCACTCTTT TTCCCACCAC CCACTCTCCT CTGCCTCAGT 3300

3301 AAGTATCTGG AGGAAGAAAA CAGGTGAAAG AAGAAGTAAA AACCATTTAG TATTAGTATT 3360

3361 AGAATGAAGT CAAACTGTGC CACACATGGT GAATGAAAAA AAAAAAAAG AGGCTGTGTT 3420

3421 TTGTCACACA GGGCAGTCAT TCAGCACCAG AGCACGTGAT GGTCTGAGAC TCTCTTAGGA 3480

3481 GCAGAGCTCT GCCGCAATGG CCATGTGGGG ATCCACACCT GGTCTGAGGG GCAACTGAGT 3540

3541 CTGCGGGAGA AGAGCGGCCC TATGCATGGT GTAGATGCCC TGATAAAGAA CATCTGTCCT 3600

3601 GTGAAAGACT CAATGAGCTG TTATGTTGTA AACAGGAAGC ATTTCACATC CAAACGAGAA 3660

3661 AATCATGTAA ACATGTGTCT TTTCTGTAGA GCATAATAAA TGGATGAGGT TTTTGCAAAA 3720

# FIG. 31A

	ATGI M F			C C P	CTG(		AT I		AATO M			STC1			GTGA	GGA(		CGTC			60 20
61	ACGG	CC:	rc <b>r</b> :	r 1	'CAG	cgcc	CGA	CAT	GCT(	CAAT	GTO	CACO	CTT	GC	AAGG	GCC	CAC	TCTT	DAA1	GGG	120
	T A														G			L		G	40
										AGTG V					GCTG W	GCT L	CAA N	CAC			180 60
															agaa N		CTT F		CCT( L		240 80
	GTC'							CAG S				GGC. A			TCTA Y				CCT		300 100
										GCTG L		CTT F	CTG W	GG A	CCAT	CAC T	CAT I		CAA( N		360 120
	TTC F									CTGC C		CGT V			ATGC A	CAT I			CAT M		420 140
	CTG L				GCAT I	CTG C	TTT F	CCI	TAD? M	GCTG L	GT V	GAG S	CAT I	rcg D	ACCO R	CT? Y	L L	GGC A	CCT L		480 160
	AAA K				CCAT M			GAT M	rgce R	G	gi V	GCG R	CTC W	GGG A	CCAI K			CAG S	CTT L	GGTG V	540 180
	ATC						GCT L	CC	rgac S	SCTCA S	P CC	CAC M	rgC1	rgg V	TGT:	rcc( R	GAC T	CAT M	'GAA K		600 200
	. TAC . Y			rg E		SCC# H		CG'				etgi V			GCT:	ACC(		CCI L	radi I	CTGG W	660 220
661 221	GAZ LE	AGT( V	F	CA T	CCA N	ACAT M	rgct L	L CC'	TGA. N	ATGTO V	C GT	rgg( G	GCT' F	TCC L	TGC L	TGC P	CCCI L	GAC S	TGT V	CATC I	720 240
721 241	L ACC	CTT( F	CTG C	CA T	CGA'	rgcz Q	AGAT I	CA'	TGC: Q	AGGTO V	G C'	rgc( R	GGA. N	ACA N	A ACG	AGA M	TGCA Q	GAI K	AGTT F	CAAG K	780 260
78: 26:	1 GA	GAT I	CCA Q	GA T	CGG E	AGA( R	GGAC R	G GG	CCA T	CGGT(	G C' L	PAT V	TCC L	TGC 7	FTTG / V	TGC L	TGCT L	r GC!	rati F	CATC	280 280
84:	1 AT	CTG	CTG w	GC T.	TGC	TOO	TCC2	A.GA T	TCA	GCAC	C T F	TCC L	TGG D	ATA	A CGC F L	TGC	ATC	G CC' L	TCG( G	CATO	900

#### FIG. 31B

901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG 960 301 L S S C Q D E R I I D V I T Q I A S F M 320 961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA 1020 321 A Y S N S C L N P L V Y V I V G K R F R 340 1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG AGGGCTGCAG GTCAGAACCC 1080 341 K K S W E V Y Q G V C Q K E G C R S E P 360 1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT 1140 361 I Q M E N S M G T L R T S I S V E R Q I 380 1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG 1200 381 H K L Q D W A G S R Q * 1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT TTTCAGCATG GGCCCAGGAA TGCCAAGGAG 1260 1261 ACATCTATGC ACGACCTTGG GAAATGAGTT GATGTCTCCG GTAAAACACC GGAGACTAAT 1320 1321 TCCTGCCCTG CCCAATTTTG CAGGGAGCAT GGCTGTGAGG ATGGGGTGAA CTCACGCACA 1380 1381 GCCAAGGACT CCAAAATCAC AACAGCATTA CTGTTCTTAT TTGCTGCCAC ACCTGAGCCA 1440 1441 GCCTGCTCCT TCCCAGGAGT GGAGGAGGCC TGGGGGGAGG GAGAGGAGTG ACTGAGCTTC 1500 1501 CCTCCCGTGT GTTCTCCGTC CCTGCCCCAG CAAGACAACT TAGATCTCCA GGAGAACTGC 1560 1561 CATCCAGCTT TGGTGCAATG GCTGAGTGCA CAAGTGAGTT GTTGCCCTGG GTTTCTTTAA 1620 1621 TCTATTCAGC TAGAACTTTG AAGGACAATT TCTTGCATTA ATAAAGGTTA AGCCCTGAGG 1680 1681 GGTCCCTGAT AACAACCTGG AGACCAGGAT TTTATGGCTC CCCTCACTGA TGGACAAGGA 1740 1741 GGTCTGTGCC AAAGAAGAAT CCAATAAGCA CATATTGAGC ACTTGCTGTA TATGCAGTAT 1800 1801 TGAGCACTGT AGGCAAGACC CAAGAAAGAG AAGGAGCCAT CTCCATCTTG AAGGAACTCA 1860 1861 AAGACTCAAG TGGGAACGAC TGGGCACTGC CACCACCAGA AAGCTGTTCG ACGAGACGGT 1920 1921 CGAGCAGGGT GCTGTGGGTG ATATGGACAG CAGAAGGGGG AGACCAAGGT TCCAGCTCAA 1980 1981 CCAATAACTA TTGCACAACC ACCTGTCCCT GCCTCAGTTC CCTTTTATGT AACATGAAGT 2040

#### FIG. 31C

2041 CGTTGTGAGG GTTAAAGGCA GTAACAGGTA TAAAGTACTT AGAAAAGCAA AGGGTGCTAC 2100 2101 GTACATGTGA GGCATCATTA CGCAGACGTA ACTGGGATAT GTTTACTATA AGGAAAAGAC 2160 2161 ACTGAGGTCT AGAAATAGCT CCGTGGAGCA GAATCAGTAT TGGGAGCCGG TGGCGGTGTG 2220 2221 AAGCACCAGT GTCTGGCACA CAGTAGGTGC TCATTGGCTC CCTTCCACCT GTCATTCCCA 2280 2281 CCACCCTGAG GCCCCAACCG CCACACACA AGGAGCATTT GGAGAGAAGG CCATGTCTTC 2340 2341 AAAGTCTGAT TTGTGATGAG GCAGAGGAAG ATATTTCTAA TCGGTCTTGC CCAGAGGATC 2400 2401 ACAGTGCTGA GACCCCCCAC CACCAGCCGG TACCTGGGAA GGGGGAGAGT GCAGGCCTGC 2460 2461 TCAGGGACTG TTCCTGTCTC AGCAACCAAG GGATTGTTCC TGTCAATCAA TGGTTTATTG 2520 2521 GAAGGTGGCC CAGTATGAGC CCTAGAAGAG TGTGAAAAGG AATGGCAATG GTGTTCACCA 2580 2581 TCGCCAGTGC CAGGCCAGCA CTCATTCACT TGATAAATGA ATATTTATTA GCTGGTTGGA 2640 2641 GAGCTAGAAC CTGGAGAGCT AGAACCTGGA GAACTAGAAC CTGGAGGGCT AGAACCTGGA 2700 2701 GAGGCTAGAA CCAAGAAGGG CTAGAACCTG GAGGGGCTAG AACCTAGAGA AGCTAAAACC 2760 2761 TGAGCTAGAA GCTGGAGGAC TAGAACCTGG AGGGCTGGAA TCTGAAGGGC TAGAACCTGG 2820 2821 AGGCTGGAA TCTGGAGAGC TAGAACCTGG AGGGCTAGAA CCTGGAGGGC TAGAACCTAG 2880 2881 AAGGGCTAGA ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG 2940 2941 GAGGGCTAGA ACCTAGAAGG GCTAGAACCT GGAGGGCTAG AACCTGGCAG GTTAGAACCT 3000 3001 AGAAGGGCTA GAACCTGGAG AGCCAGAACC TGGAGGGCTA GAACCTGGAA GGGCTAGAAC 3060 3061 CTGTAGAGCT AGAACATGGA GAGCTAGAAC CCGGCAGGCT AGAACCTGGC AAGCTAGAAC 3120 3121 CTGGAGGGAA TGAACCTGGA GGGCTAGAAC CTGGAGAATG AGAAAAATTT ACATGGCAAA 3180 3181 GAGCCCATAA ATCCTGACCA ATCCAACTCT GAATTTTAAA GCAAAAGCGT GAAAAAAAAG 3240

#### FIG. 31D

3241 ATTCCCTCCT TACCCCCAAC CCACTCTTTT TTCCCACCAC CCACTCTCCT CTGCCTCAGT 3300
3301 AAGTATCTGG AGGAAGAAAA CAGGTGAAAG AAGAAGTAAA AACCATTTAG TATTAGTATT 3360
3361 AGAATGAAGT CAAACTGTGC CACACATGGT GAATGAAAAA AAAAAAAAAG AGGCTGTGTT 3420
3421 TTGTCACACA GGGCAGTCAT TCAGCACCAG AGCACGTGAT GGTCTGAGGC TCTCTTAGGA 3480
3481 GCAGAGCTCT GCCGCAATGG CCATGTGGGG ATCCACACCT GGTCTGAGGG GCAACTGAGT 3540
3541 CTGCGGGAGA AGAGCGGCCC TATGCATGGT GTAGATGCCC TGATAAAGAA CATCTGTCCT 3600
3601 GTGAAAGACT CAATGAGCTG TTATGTTGTA AACAGGAAGC ATTTCACATC CAAACGAGAA 3660
3661 AATCATGTAA ACATGTGTCT TTTCTGTAGA GCATAATAAA TGGATGAGGT TTTTGCAAAA 3720

# FIG. 32A

1	CGC	CA	ACC	CAA	GTT	CAA	AGG	CTG.	ATA	AGA	GAG.	AAA	ATC	TCA	TGA	GGA	.GGT	TTT.	AGT	CTA	60
61	GGG	AAA	GTC.	ATT	CAG	TGG.	ATG	TGA	тст	TGG	CTC	ACA	.GGG	GAC	GAT	GTC	AAG	CTC	TTC	CTG	120
1															M	s	s	S	S	W	6
121	GCT											-	_								18
7	L	L	L	S	L	V	A	V	Т	A	A	Q	S	Т	I	E	E	Q	A	K	26
181	GAC				-	-															24
27	т	F	L	D	K	F	N	н	E	A	E	D	L	F	Y	Q	S	S	L	A	46
241																				TGG	30
47	s	W	N	Y	N	Т	N	I	T	E	E	N	V	Q	N	M	N	N	A	G	66
	GGA																				36
67	D	K	W	s	A	F	L	K	E	Q	S	Т	L	A	Q	М	Y	P	Ļ	Q	86
361	AGA	אמת	ጥርል	GAA	יייי	CAC	· 'AGT	CAA	\GC1	· PTCA	GCI	YGC Z	\GG(	·	TC	AGCZ	XAAA	ATGG	GTC	TTC	42
87			Q							Q								G			10
421	AGT	GCI	CTC	:AGA	\AGI	CAZ	AGAC	CA	AACO	GTI	GAZ	ACAC	CAAT	TCI	'AA!	ATA	CAA	rgac	CAC	CAT	48
107	v	L	s	E	D	K	S	K	R	L	N	Т	Ι	L	N	Т	M	S	T	I	12
481																				AACC	54
127	Y	S	T	G	K	V	С	N	P	D	N	P	Q	E	С	L	L	L	E	P	14
541	AGG	արդու	rga <i>i</i>	· ATGI	AAA	ראמי	rgg(	CAAZ	ACAG	PTT:	PAG	ACT	ACA	ATG	AGAG	GC:	· rcty	GGG	TTC	GGA	60
147		L		E		M		N					N			L		A		E	16
601	AAC	CTC	GGA	GAT	CTG	AGG:	rcg	GCA	AGC	AGC:	rga(	GGC(	CAT'	FAT	ATG/	AAG	AGT	ATGT	rggi	ICTT	66
167	s	W	R	s	E	V	G	K	Q	L	R	P	L	Y	E	Е	Y	V	V	L	18
661	GA.	\AA/	ATG	AGA'	rgg	CAA	GAG	CAA	ATC	ATT	ATG	AGG.	ACT	ATG	GG.	ATT.	ATT	GGA	SAGO	GAGA	72
187	K	N	E	M	A	R	A	N	H	Y	E	D	Y	G	D	Y	W	R	G	D	20
																					78
207	Y	E	V	N	G	V	D	G	Y	D	Y	S	R	G	Q	L	I	E	D	٧	22
781	GG	AAC.	ATA	CCT	TTG	AAG.	AGA	TTA	AAC	CAT	· TAT	ATG	AAC	ATC	TTC.	ATG	CCT	ATG'	rga(	GGGC	84
227	E	H	T	F	Ε	E	I	K	P	L	Y	E	Н	L	Н	A	Y	V	R	A	24
841	AA	AGT	TGA	TGA	ATG	CCT	ATC	CTT	CCT	ATA	TCA	GTC	CAA	TTG	GAT	GCC	TCC	CTG	CTC	ATTT	9(
217	v	T.	M	N	- λ	v	ם	C	v	• т		D	т.	G	C	T.	. p	Δ	н	T.	26

# FIG. 32B

901	ഭവൗ	'GG'	rgar	• ኮልጥ(	GTG	GGG	TAG.	ATT	TTG	GAC	AAA	TCT	GTA	CTC'	TTT	GAC	AGT.	rcc	CTTI	GG	960
	L												Y			T		P		G	286
	_	_	_		•••	_															
																				•	
961	ACA	GAA.	ACC.	AAA	CAT	AGA	TGT	TAC	TGA	TGC	TAA	GGT	'GGA	CCA	GGC	CTG	GGA'	TGC	ACAC	GAG	1020
287	Q	K	P	N	I	D	V	$\mathbf{T}$	D	A	M	V	D	Q	A	W	D	A	Q	R	306
																	•			•	
021	AAT	TTA	CAA	GGA	GGC	CGA	.GAA	GTI	CTT	TGI	'ATC	TGT	TGG	TCT	TCC	TAA	TAT				1080
307	I	F	K	E	Α	E	K	F	F	V	S	V	G	L	P	N	M	T	Q	G	326
														•			•			_ <b>.</b>	4440
.081	ATT	CTG	GGA	AAA	TTC	CAT	'GCT	AAC	GGA	CCC	AGG	AAA	TGT	TCA	GAA	AGC.	AGT	CTG	CCA'	ICC	1140
327	F	W	E	N	S.	M	L	T	D	P	G	N	V	Q	K	A	V	С	н	P	346
				•			•									~~		~~m	C 2 C	3 3 (T)	1200
141	CAC	AGC	TTG	GGA	CCI	'GGC	GAA	GGG	GCGP	CTI	CAG	GA'I	rcci	TAT	GTG	CAC	AAA	GGT.	GAC. T	M	366
347	T	A	W	D	L	G	K	G	ט	F.	R	Т	L	M	C	T	V	V	1	141	300
1201		~~~				12.00	•	mo.	. m		nccc		<b>ነ</b> ጥ አ ጥ	·	מיים ו	מביתי	т <u>ь</u> т	YCCC	מידמ	TYCC	1260
367	GGA	CGA	CTI	CCI	'GAC	AGC	TU	TIC:	E 7.1.03	IGA:	2	roer u	T.V.T	. CC.	V	מנו	M	A A	v	A	386
367	ע	ע	r	П	1	A	п	п	E	M	G	11	_	¥	-	ט		••	•		•••
																				_	
1261	TICC:	א ר א	אככ	·TVIVIT	ייתריי	ייברי	ממח	ממב	ል ጥር <u>ን</u> ር	SAGO	ጉጥል !	ATG	AAGG	· rta:	rccz	TGA	AGC	TGT	'TGG	GGA	1320
387	160	ACA	D	. I I I	T.	T.	R	N	G	A A	N	E	G	F	Н	E	A	v	G	E	406
307	^	¥	E	T.	_		•		·				_	_		_		_			
				_			_														
1321	ТАА	CAT	GTC	CACI	TTT	CTG	CAG	CA	CAC	CTA	AGC	ATT	TAA	AATO	CA	TGG	TCT	TCI	GTC	ACC	1380
407	I	М	s	L	s	A	A	т	P	K	H	L	K	S	I	G	L	L	s	P	426
	_																				
																	•			•	
1381	CGA	TTI	TC	AAG!	AAG	ACA	ATG	AAA	CAG	AAA'	TAA	ACT	TCC	rgc:	TÇA.	AAC	AAGO	CACI	CAC		1440
427	D	F	Q	E	D	N	E	T	E	I	N	F	L	L	K	Q	A	L	T	I	446
											•			•			•			•	
1441	TGI	TG	<b>GA</b> (	CTC:	rgc	CAT	TTA	CTT	ACA'	TGT	TAG.	AGA	AGT	GGA(	GGT	GGA!	rgg:	rct?	TAP	LAGG	1500
447	v	G	T	L	P	F	T	Y	M	L	E	K	W	R	W	M	V	F	K	G	466
				•			<u>-</u>							•	max :		·	2025	ת א	· ·	1560
1501														AGA'	TGA	AGC	ADAE T	AGA:	ragi	G	486
467	E	I	P	K	D	Q	W	M	K	K	. W	W	E	M	K	K	E		V	G	400
1561				•		maa		3 m/	3 M/		C2m	3 CT	N-W-C	200	CCC	Същ	השלה	TYC:TY	TCC2	ATCT	1620
487	GG.	ľGG	r.G.G.	DAA	CTG	160	77	AIG	WIG	AAAA	CAI	MC I	GIG	ם	A	CAI	T.	F	H	v	506
487	V	V	E	P	V	P	н	L	· E	1		C		F	^			•	••	•	300
																				_	
1621	me	-m	3 m~	. mm	3 Om	~~~	· mc»	mmc	יים אים	דיירו ע	מים מי	ר א ח	CCA	· ~~	Turbutu	ACC	• ጥልል	TCC	AGT	PTCA	1680
1021	TT	T'A.	atg ~	ATT.	ACI	CAL	TCA	TTC	JAU.	. A	r m		TO CAR	T	···v		 T		<b>T</b>	Q	526
50/	5	N	ע	ĭ	3	· r			. 1							¥	•	*	-	~	323
											_			_							
1681	20	- ממ	<u> </u>	<del>ՄՄ</del> ՄՄ	ረጥረ	ממי		בייים	ממ	יאייא:	AAC	GCC	ירים	TGC	ACA	TAA	GTG	ACA	TCT	CAAA	1740
527	AG.	<u>ی دی</u> ۵	CAC T.		910	) A	A	F	5 H	E		; F	L	H	K	C	D	I	S	N	546

# FIG. 32C

1741	CTC	TAC	AGA	AGC	TGG.	ACA	GAA	ACT	GTT	CAA'	TAT	GCT	GAG	GCT	TGG.	AAA	ATC.	AGA	ACC	CTG	1800
547	S	T	E	A	G	Q	K	L	F	N	M	L	R	L	G	K	S	E	P	W	566
1801	CAC	·CC	22.00	7 mm	CCA	אממ	mem	m/jm	NGC	acc	אאא	~ N N	Cam	~ ~ ~ ~	uv.cuv	አአር	ecc	አ ርጥ	വ വ	CAA	1860
567	T		AGC A			n N				AGC.					V		P	L	L	N	586
1861	CTA	CTI	TGA	GCC	CTT	ATT'											· TTT	TGT	GGG.	ATG	1920
587	Y	F	E	P	L	F	T	W	L	K	D	Q	N	K	N	S	F	V	G	W	606
1921	GAG	TAC	CGA	CTG	GAG	TCC.	ATA	TGC	AGA	CCA	AAG	CAT	CAA	AGT	GAG	GAT	AAG	CCT	AAA	ATC	1980
607			D							Q				v				L			626
																	_				
1981			TGG																		2040
627	A	L	G	D	K	A	Y	E	W	N	D	N	E	M	Y	L	F	R	S	S	646
2041	ጥርባ	ቦጥረረ	מידמי	.тсс	ጥልጥ	'CAC	GCA	СТА	سس	ուսուրս •	מממי	аст	מממי		ጥሮል	ТАЭ	TATY	wyCyr	<b>Ն</b> Դ	TGG	2100
647			Y															L			666
2101	GG	AGGZ	\GG2	TGI	'GCG	AGT	'GGC	TAA	TTT	GAA	ACC	AAC	raa:	CTC	CTI	TAA	LTTI	CTT	TGT	CAC	2160
667	E	E	D	V	R	V	A	N	L	K	P	R	I	S	F	N	F	F	V	T	686
2161	TG	CAC	CTA	AAA	TGI	GTC	TGA	TAT	CAT	TCC	TAC	AAC	TGF	LAGI	TGA	AAA	GGC	CAT	CAG	GAT	2220
687	A	P	K	N	v	S	D	I	I	P	R	T	E	V	E	K	A	I	R	M	706
2221	GT(		2G A C		ייביייב	ממיי	.TC2	ጥርር	املىلىر	PCC6	ביתרים	T A EDT	ATC:	\CA2	יראפ	ברריו	PAGZ	(CTT	ייירייו	· YGGG	2280
707																				G	726
2281	GA'	TAC	AGC	CAAC	CACI	rTGG	ACC	TCC	TAZ	ACCA	AGC(	ccc	CTGT	· rttc	CAT	'ATC	GC1	GAT	TGI	TTT	2340
727		Q	P	T	L	G	P	P	N	Q	P	P	V	s	I	W	L	I	V	F	746
2341	TG	GAG'	rtg	rgan	rggo	SAGT	rgan	ragi	rgg	PTGC	GCAT	rtgi	rcar	rcci	rga:	CTT	CAC	TGC	GAT	CAG	2400
747		V	V	M	G	V	I	V	V	G	I	V	I	L	I	F	T	G	I	R	766
2401	AG.	ATC	GGA.	AGA	AGAZ	\AA?	· ATA	AAG	CAAC	GAAC	GTG(	GAG	AAA	ATC	TT	ATGO	CTC	CAT	CGA	TAT	2460
767	D	R	K	ĸ	K	N	K	A	R	s	G	E	N	P	Y	A	s	I	D	I	786
2461	ጥል	പ്രവ	A A C	GAG		ልጥል 2	ΔΤΟ	TAG(	יידעב	י. דררי	A A A Z	מראנ	CTYCE	ATC:	ייטעי	ריירי	AGA	ירים	יינים	ATT	2520
																				*	
2521	GA	AAA	ATC'	TAT	GTT'	TTT	CCT	CTT	GAG	GTG	· ATT	TTG:	TTG	Yan	STA	YTAA	STT	AATT	rtci	ATGG	2580
2581	ТА	TAG	AAA	· ATA	TAA	GATO	GAT	AAA	GAT.	ATC	· ATT	AAA'	TGT	CAA	AAC	TAT	GAC'	rcix	TTC	CAGA	2640

# FIG. 32D

2641	AAAAAAATTGTCCAAAGACAACATGGCCAAGGAGAGAGCATCTTCATTGACATTGCTTTC	2700
2701	AGTATTTATTTCTGTCTCTGGATTTGACTTCTGTTCTGT	2760
2761		2820
2821	GTAAATGTCTGTTGAATTTCTGAAGTTGAAAACAAGGATATATCATTGGAGCAAGTGTTG	2880
2881	GATCTTGTATGGAATATGGATGGATCACTTGTAAGGACAGTGCCTGGGAACTGGTGTAGC	2940
2941	TGCAAGGATTGAGAATGGCATGCATTAGCTCACTTTCATTTAATCCATTGTCAAGGATGA	3000
3001		3060
3061	GGAATCGATCATGCTTTCTTCAAGGTGACAGGTCTAAAGAGAGAAGAATCCAGGGAACAG	3120
3121	GTAGAGGACATTGCTTTTCACTTCCAAGGTGCTTGATCAACATCTCCCTGACAACACAA	3180
3181	AACTAGAGCCAGGGGCCTCCGTGAACTCCCAGAGCATGCCTGATAGAAACTCATTTCTAC	3240
3241	TGTTCTCTAACTGTGGAGTGAATGGAAATTCCAACTGTATGTTCACCCTCTGAAGTGGGT	3300
3301	. ACCCAGTCTCTTAAATCTTTTGTATTTGCTCACAGTGTTTGAGCAGTGCTGAGCACAAAG	3360
3361	CAGACACTCAATAAATGCTAGATTTACACACTCAAAAAAAA	

# FIG. 33A

1	AT(	GCA'	TCT'	TAT	CGA	CTA	CCT	GCT	CCT	CCT	GCT	GGT	TGG	ACT.	ACT	GGC	CCT	TTC:	rca'	rggc	60
1	M	Н	L	I	D	Y	L	L	L	L	L	V	G	L	L	A	L	S	Н	G	20
61	CA	GCT	GCA	CGT	TGA	GCA	TGA	TGG	TGA	GAG	TTG	CAG	TAA	CAG	CTC	CCA	CCA	GCA	GAT'	ICTG	120
21	Q	L	н	V	E	Н	D	G	E	S	С	s	N	s	S	Н	Q	Q	I	L	40
121	GA	GAC.	AGG	TGA	GGG	CTC	ccc	CAG	CCT	CAA	GAT	AGC	ccc	TGC	CAA	TGC	TGA	CTT	TGC	CTTC	180
41	E	T	G	E	G	s	P	s	L	K	I	A	P	A	N	A	D	F	A	F	60
181	CG	CTT	СТА	CTA	CCT	GAT	CGC	TTC	GGA	GAC	ccc	GGG	GAA	GAA	CAT	СТТ	TTT	CTC	ccc	GCTG	240
61	R	F	Y	Y	L	I	A	s	E	T	P	G	K	N	I	F	F	s	P	L	80
241	AG	CAT	CTC	GGC	GGC	СТА	.CGC	CAT	GCT	TTC	CCT	'GGG	GGC	CTG	CTC	ACA	CAG	CCG	CAG	CCAG	300
81	S	Ι	S	A	A	Y	A	M	L	s	L	G	A	С	s	Н	S	R	S	Q	100
301	AT	CCT	TGA	GGG	CCT	GGG	CTT	CAA	.CCT	CAC	CGA	GCI	GTC	TGA	GTC	CGA	TGT	CCA	TAG	GGGC	360
101	I	L	E	G	L	G	F	N	L	T	E	L	S	E	s	D	V	Н	R	G	120
361	тт	CCA	.GCA	CCT	CCT	'GCA	CAC	TCT	CAA	CCT	·ccc	:CGG	CCA	TGG	GCT	GGA	AAC	ACG	CGT	GGGC	420
121	F	Q	Н	L	L	Н	T	L	N	L	P	G	н.	G	L	E	T	R	V	G	140
421	AG	TGC	TCT	GTI	CCI	'GAG	CCA	CAA	CCI	GAA	GTI	CCI	TGC	AAA	ATT	CCI	Gaa	TGA	CAC	CATG	480
141	s	A	L	F	L	s	H	N	L	K	F	L	A	K	F	L	N	D	T	M	160
481	GC	CGT	СТА	TGA	.GGC	TAA	ACI	CTT	CCA	CAC	CAA	CTI	CTA	LCGA	CAC	TGT	YGGG	CAC	TAA	CCAG	540
161	A	V	Y	E	A	K	L	F	Н	т	N	F	Y	D	Т	V	G	T	I	Q	180
541	CT	TAT	CAA	.CGA	CCA	CGI	CAA	GAA	GGA	AAC	TCC	AGG	GAZ	GAI	'TGI	'GGA	TTT	GT	CAG	TGAG	600
181	L	I	N	D	Н	v	K	K	E	T	R	G	K	I	V	D	L	v	S	E	200
601	CI	CAA	GAA	.GGA	CGI	CTI	GAT	GGI	GCI	GGI	· GAA	TT	CAT	TTP	CTI	CAA	AGC	CCT	GTG	GGAG	660
201	L	K	K	D	V	L	M	V	L	V	N	Y	I	Y	F	K	A	L	W	E	220
661	AA	ACC	:ATI	CAT	TTC	CTC	AAC	GAC	CAC	CTCC	CA	AAG	CTI	PCTA	TGI	TGA	YGA	GAA	CAC	AACA	720
																				T	
721	GT	CCC	ദേദ	· GCC	CAT	יקאי	rgc:i	IGCZ	.GGZ	ACCZ	NGGZ	AGC Z	ATC2	· ACTY	CT2	\TC1	TC2	TGA	CAG	ATAC	780
																				Y	
																				TCTC	
261	L	P	C	S	V	L	R	M	D	Y	K	G	D	A	T	V	F	F	I	L	280

## FIG. 33B

841	CC	TAA	CCA	AGG	CAA	AAT	GAG	GGA	GAT	TGA	AGA	GGT	TCT	GAC	TCC	AGA	GAT	GCT.	TAA	GAGG	900
281	P	N	Q	G	K	M	R	E	I	E	E	v	L	T	P	E	M	L	M	R	300
901	TG	GAA	CAA	CTT	GTT	GCG	GAA	.GAG	GAA	TTT	TTA	.CAA	.GAA	GCT	AGA	GTT.	GCA	TCT	TCC	CAAG	960
301	W	N	N	L	L	R	K	R	N	F	Y	K	K	L	E	L	H	L	P	K	320
961	TT	CTC	CAT	TTC	TGG	стс	CTA	TGT	'ATT	'AGA	TCA	GAT	TTT	GCC	CAG	GCI	YGGG	CTT	CAC	GGAT	1020
321	F	S	I	S	G	S	Y	V	L	D	Q	I	L	P	R	L	G	F	T	D	340
1021	СT	GጥT	стс	CAA	GTG	:GGC	TGA	CTT	אימי	CGG	CAT	CAC	CAA	ACA	GCA	AAA	ACT	GGA	GGC	ATCC	1080
341	L	F	s	K	W	A	D	L	s	G	I	Т	K	Q	Q	K	L	E	A	S	360
1081	ממ	AAG	արժ	'''	ממי	יככר	יראר	ירייטי	rccz	ירפיז		מבוצרו.	'GGC	· 'T'C-C	CAC	'CGA		ጥርር	'AGC	AGCC	1140
361	K	S	F	Н	K	A	T	L	D	v	D	E	A	G	Т	E	A	A	A	A	380
1141	<b>A</b> C	יר א ר	יכיחים	· ·	יכמי	י ב ריי	Maria	, ,	יריתי	ግርር	'CC'	CAC	ממי	чт <b>с</b> с	ברר ז	רבח	ירכיזי	GCG	יים ב	CAAC	1200
381	T	Т	F	A	I	K	F	F	s	A	Q	Т	N	R	н	I	L	R	F	N	400
1201	CG	ינירר	ירייםי	יירריי	րուշո	rcci	רבריו	וירים י	ייוייי	ראר	CAC	CAC	CCZ	GAG	:ጥር:ባ	rcci	ריריי	TCT	vgge	CAAG	1260
401	R	P	F	L	v	v	I	F	s	Т	s	Т	Q	S	v	L	F	L	G	K	420
1261	GT	יכפיז	CGZ	ACCO	CAC	CGAZ	AACO	САТА	AG	128	34										
421	v	v	D	P	Т	K	P	*	-	428	-										

### FIG. 34A

1	ATO	GCA'	TCT'	TAT	CGA	CTA	CCT	GCT	CCT	CCT	GCT	GGT"	TGG	ACT	ACT	GGC	CCT	TTC	TCA'	rggc	60
1	M	H	L	I	D	Y	L	L	L	L	L	v	G	L	L	A	L	s	Н	G	20
				•							•									•	
																				TCTG	120
21	Q	ь	H	V	E	н	D	G	E	S	C	S	N	S	S	H	Q	Q	I	L	40
121	CA	C 2 C	200	mc x		cmc.		C	$\sim$	C N N	Cam	200	000	mcc	~ ~ ~	mcc	max	cmm	maa	cmmc	180
41	E												P		CAA N			F			60
4.1	-	-	G		G	3	F	3	ם	K	_	Λ	F	^	14	^	ט	F	A	F	00
181	CG	СТТ	СТА	CTA	CCT	GAT	CGC	TTC	GGA	GAC	ccc	GGG	GAA	GAA	CAT	CTT	TTT	CTC	ccc	GCTG	240
61													K							L	80
																				•	
241	AG																			CCAG	300
81	S	I	S	A	A	Y	Α	M	L	S	L	G	A	С	S	H	S	R	S	Q	100
201			ma.			~~~				~~		~~			~~~				<b></b>		260
301 101			_					_												GGGC	360 120
101	_	ь	E	G	ь	G	r	IA	'n	T	E	ىد	S	E	5	D	V	н	R	G	120
361	ηч	ירכש	GCA	ССТ	יככיי	CCA	CAC	יייריי	ממיי	ССТ	יכככ	ירפה	בררם	TGG	CCT	YCC A	AAC	יארה	·CGT	GGGC	420
121													Н						v		140
	_	_		_	_		_	_		_	_	-		_	_	_	_		_		
421	AG	TGC	TCT	'GTI	CCT	'GAG	CCA	CAA	CCI	'GAA	GTI	CCI	TGC	AAA	TTA	CCI	'GAA	TGA	CAC	CATG	480
141	S	A	L	F	L	S	H	N	L	K	F	L	Α	K	F	L	N	D	T	M	160
				•			•				•			•							
																				CCAG	
161	A	V	Y	E	Α	K	Ь	F	н	Т	N	F'	Y	D	T	V	G	T	T	Q	180
5/1	CT	יי ביי	מ מיים	· ·CGI	\CC3	CCT	ממיזי	CAA	CCA	ממ	· ነጥሮሪ	2200	202	באח	ጥርብ	CC	րդոր •	יכביו	ነ ልር	TGAG	600
181													K							E	200
	_	_			**	•	•	•	_	•	•	•	•	_	•	_	_	•		_	200
601	CI	CAZ	AGAZ	\GG#	ACGI	CTI	GAT	GGI	rgei	rggi	'GAZ	TT	CAT	TT	CTI	CAA	AGC	CCI	GTC	GGAG	660
201	L	K	K	D	v	L	M	Ÿ	L	v	N	Y	I	Y	F	K	A	L	W	E	220
																				•	
																				CAACA	
221	K	P	F	I	S	S	R	${f T}$	T	P	K	D	F	Y	V	D	E	N	T	T	240
				•				•			•			•				•		•	
																				ATAC	
241	V	R	V	P	M	M	L	Q	D	Q	E	Н	Н	W	Y	L	Н	D	R	Y	260
791	m	ייטים	~~m/	2000	مصرر	ויכייי	רא מיז	בכיאר	ייכרי	V chun s		ر م	ייעני		י א אר	~~~	<u>.</u> mr	Marian	חער אַח	TCTC	840
																				L	280
		E	_		v		1	1.1		+	1	3	•	-	_	v	<u>.</u>	F.	_		200

### FIG. 34B

841	CC	TAA	CCA	AGG	CAA	AAT	GAG	GGA	GAT	TGA	AGA	GGT	тст	GAC	TCC	AGA	GAT	GCT	AAT	GAGG	900
281	P	N	Q	G	K	M	R	E	I	E	E	V	L	Т	P	E	M	L	M	R	300
901	TG	GAA	.CAA	CTT	GTT	'GCG	GAA	.GAG	GAA	TTT	TTA	CAA	.GAA	GCI	'AGA	GTI	'GCA	TCI	TCC	CAAG	960
301	W	N	N	L	L	R	K	R	N	F	Y	K	K	L	E	L	H	L	P	K	320
											•			•						•	
961	TT	CTC	CAT	TTC	TGG	CTC	CTA	TGT	TTA'	'AGA	TCA	GAT	TTT	'GCC	CAG	GCI	GGC	CTI	CAC	GGAT	1020
321	F	S	I	S	G	S	Y	V	L	D	Q	I	L	P	R	L	G	F	T	D	340
.021	СП	A TOTAL	יכיייכ	ממטי	CTC	ccc	מביחיר	СФТ	י א ייי	rccc	יר איז	יראר	מ מיםי	.aca	CC2	מממ	מרח	rcc z	روور	ATCC	1080
341		F	S	K	W	A	D	L	S	.cgc	I	T	K	0	0	K	L	E	A	s	360
241	ь	F	3	K	W	A	ע	ц	5	G	1	•	K	Q	Q	K	ם	E	А	3	300
081	AA	AAG	TTT	CCA	CAA	\GGC	CAC	CTI	'GGA	CGI	'GGA	TGA	.GGC	TGC	CAC	CGF	GGC	TGC	AGC	AGCC	1140
361	K	S	F	Н	K	A	т	L	D	V	D	E	A	G	T	E	A	A	A	A	380
141	2.0							SOME	om.	ישיי		· C 7 C	~ ~ ~ ~						חחח מי	CAAC	1200
381	Т	т	F	A	I	K	F	F	S	A	Q	Т	N	R	Н	Ι	L	R	F	N	400
1201	CG	GCC	CTI	רכביז	rTGT	rggi	rgan	PCTT	TTT	CAC	CAC	CAC	CCZ	AGAG	TG:	rcc:	rcT?	PTC:	rgg(	GCAAG	1260
401			F	L	v	v	I	F	s	T	s	T	Q	s	v	L	F	L	G	K	420
1261	Gr	יכפיי	rcgz	ACCC	CAC	CGA	AACC	CATA	\G	128	34										
401										400	. –										

# FIG. 35A

1	ATO	GCA'	TCT'	TAT	CGA	CTA	CCT	GCT(	CCT	CCT	GCT(	GGT'	TGG	ACT	ACT	GGC	CCT	TTC'	rca:	rggc	60
1	M	H	L	I	D	Y	L	L	L	L	L	v	G	L	L	A	L	s	H	G	20
																				•	
61	CA	GCT	GCA	CGT	TGA	GCA'	TGA'	TGG	TGA	GAG'	TTG	CAG	TAA	CAG	CTC	CCA	CCA	GCA	GAT.	TCTG	120
21	Q	L	Н	V	E	н	D	G	E	S	С	S	N	S	S	Н	Q	Q	I	L	40
121	CN	CAC	NGG	ጥር እ	ccc	CTTC		CNG	ററന	~ A A	Сът	אככ	ccc	TCC	~ A A	marci	TC N		PCC(	CTTC	180
41			лоо G										P								60
AT	E	•	G	-	G	٥	F	٥		K	_	^	F	Λ	14	^	ט	£	^	F	00
181	CG	СТТ	СТА	CTA	CCT	GAT	CGC	TTC	GGA	GAC	CCC	GGG	GAA	GAA	CAT	СТТ	TTT	CTC	ccc	GCTG	240
61	R	F	Y	Y	L	I	A	S	E	T	P	G	K	N	I	F	F	S	P	L	80
241	AG	CAT	CTC	GGC	GGC	СТА	CGC	CAT	GCT	TTC	CCT	GGG	GGC	CTG	CTC	ACA	CAG	CCG	CAG	CCAG	300
81	s	I	S	A	A	Y	A	M	L	S	L	G	A	С	s	H	S	R	S	Q	100
																				•	
301	AΤ	CCT	TGA	.GGG	CCT	GGG	CTT	CAA	CCT	CAC	CGA	GCT	GTC	TGA	GTC	CGA	TGT	CCA	TAG	GGGC	360
101	I	L	E	G	L	G	F	N	L	T	E	L	S	E	s	D	V	Н	R	G	120
																				•	
361																			CGT	GGGC	
121	F	Q	H	L	L	H	T	L	N	L	P	G	Н	G	L	E	T	R	V	G	140
<b>421</b>	A.C	יתכיר	יתי	יבייים	т	YC N C	دري	. C A A	ССТ	ממטי	Стт	усст	יחיבר	מממי	מיים ב	YCCT	««	.πсъ	CAC	CATG	480
141			_		L											L		D	Т	M	160
	_	••	_	•	_	_	••	••	_	••	•	_	••	••	-	-	••	_	•		
481	GC	יכפיז	יריתיצ	. TC Z	محدد	ממחי	ДОП	יריתי	יררש	ראכ	ממטי	יריים	מידיטי	· ·CGP	יכאכ	יתיביתי	יכככ	יראר	ייע בי	CCAG	540
161			Y		A											v				0	180
	••	•	•	_	••	••	_	-	••	•		-	•	_	-	•		-	-	-	
541	CI	TAT	CAZ	LCGZ	ACCA	CGI	CAA	GAA	.GGA	AAC	TCG	AGG	GAA	GAI	rTGT	GGA	TTI	GGT	'CAG	CGAG	600
181			N		Н								K				L			E	200
601	CI	CAZ	AGAZ	AGGZ	ACGI	rcra	GAJ	IGGI	'GC'I	rggi	GAZ	TT	CAT	TTA	CTT	CAA	AGC	CCI	GTG	GGAG	660
201					v										F		A		W	E	220
				•				,						٠							=0.4
																					720
221	K	P	F	I	S	S	R	Т	Т	Р	K	ע	F	Y	V	D	E	N	Т	T	240
721	G2	rcc	GGG'	rgc(	CCA.	rgat	rge:	rgcz	AGG/	ACCZ	AGG/	AGC	ATC!	ACTO	GTZ	TCI	TCA	ATG?	CAC	SATAC	780
																				Y	
	•		•	-				~	_	-	_			••	_			-			
																				TCTC	
261	L	P	С	S	V	L	R	M	D	Y	K	G	D	Α	T	v	F	F	I	L	280

## FIG. 35B

				•			•				•			•			•			•	
841	CC	TAA	CCA	AGG	CAA	AAT	GAG	GGA	GAT	TGA	AGA	GGT	TÇT	'GAC	TCC	AGA	GAT	GCI	AAT	GAGG	900
281	P	N	Q	G	K	M	R	E	I	E	E	v	L	T	P	E	M	L	M	R	300
														•							
901								GAG				CAA	GAA	GCI	'AGA	GTI		TCI	TCC	CAAG	960
301	W	N	N	L	L	R	K	R	N	F	Y	K	K	L	E	L	Н	L	P	K	320
961	тт	CTC	CAT	· TTC	TGG	CTC	CTA	TGT	ייים	AGA	TCA	GAT	ттт	GCC	CAG	GCT	GGG	CTI	CAC	GGAT	1020
321	F	s	I	S	G	s	Y	v	L	D	0	T	T.	P	R	L	G	F	т	D	340
J21		3	_		G	5	٠.	٧	L	ם		_			K	ب		F	•		340
1021	CT	GTI	CTC	CAA	GTG	GGC	TGA	CTI	'ATC	CGG	CAT	CAC	CAA	ACA	GCA	AAA	ACI	GGA	.GGC	ATCC	1080
341	L	F	S	K	W	A	D	L	S	G	I	T	K	Q	Q	K	L	E	A	S	360
1081	AA	AAG	TTT	CCA	CAA	.GGC	CAC	CTI	'GGZ	ACGI	· ·GG/	ATG#	\GGC	TGC	CAC	CGA	GGC	TGC	'AGC	AGCC	1140
361	K	s	F	H	K	A	T	L	D	V	D	E	A	G	T	E	A	A	A	<b>A</b>	380
1141	AC	CAC	:GTI	CGC	GAT	CAA	ATT	CTT	стс	TGC	CCZ	AGAC	CAA	ATC	CCA	CAT	Poot	GCC	:ATT	CAAC	1200
381	T	т	F	A	I	K	F	F	S	A	0	т	N	R	Н	I	L	R	F	N	400
301	•	•	•		_	•	٠.	•		•		•	.,		••	•			•		400
1201	CG	GCC	CTT	CCI	TGI	GGI	GAT	CTT	TT	CAC	CAC	CAC	CCZ	AGAC	TGT	CCI	CTT	TCI	GGG	CAAG	1260
401	R	P	F	L	v	v	I	F	s	т	s	т	0	s	v	L	F	L	G	K	420
	••	-	•	_	•	•	~	•	J	•		•	×	_	•	_	•	_	•	••	-20
1261	CIT	ירכים	CCZ		CAC	מ מבי	ACC	מחמי	C	128	2.4										
421					T T			* ******		428	_										
44.4	v	v	L)	~	.1,			_		4 /. 2	•										

## FIG. 36A

1	3 m/	~~~	m c m	• mam	CC 2.	Cm3	~~~	~~m	CCE	CCT	Com	CCM	mcc.	ХОТ	7 CW	ccc	~~m	TVTC:	י א יי	IGGC	60
1																					20
1	M	H	П	1	D	ĭ	ь	П	ш	П	יו	V	G	ь	ш	A	ם	5	Н	G	20
61	CA	GCT	GCA	CGT	TGA	GCA	TGA	TGG	TGA	GAG	TTG	CAG	TAA	CAG	CTC	CCA	CCA	GCA	GAT	TCTG	120
21	Q	L	H	V	E	H	D	G	E	s	С	s	N	s	S	H	Q	Q	I	L	40
121	GA	GAC	a cc	ოცა	ccc	ርጥር	CCC	റമദ	_ር ርጥ	د د <i>ت</i>	Сат	A CC	ccc	ጥርሶ	ממי	ጥረር	מבאד	СФФ	ጥርር	CTTC	180
41					G											A		_		F	60
#T	E	1	G	Ŀ	G	3	r	3	п	K	_	^	F	^	7.4	Α	ט	F	^	F	00
										~								~~~	~~~		246
																				GCTG	
61	R	F	Y	Y	L	I	A	S	E	T	Р	G	K	N	1	F	F	S	Ъ	L	80
241																				CCAG	
81	S	I	S	A	A	Y	A	M	L	S	L	G	A	С	S	Н	S	R	S	Q	100
																				•	
301	AT	CCI	TGA	GGG	CCI	'GGG	CTT	CAA	CCI	'CAC	CGA	GCI	GTC	TGA	GTC	CGA	TGT	CCA	TAG	GGGC	360
101	I	L	E	G	L	G	F	N	L	T	E	L	S	E	S	D	V	H	R	G	120
361	սիսի	ירר	GC A	CCT	יכטיו	'GCA	CAC	TCT	CAA	CCT	· CCC	:CGG	CCA	TGG	GCI	GGA	AAC	ACG	CGI	GGGC	420
121					L															G	140
	•	×	••	_	_		•	_		_	-	Ī			_	_	_		•	_	
401												100	maa		3 (1)(1	100E		mo x	C 2 C	CATG	480
141					L															M	160
TÆT	5	A	ъ	F	יד	5	п	14	L	K	F	7	A	K	r	ъ	14	D	•	M	100
				•							•			•							- 4
																				CCAG	
161	A	V	Y	E	A	K	L	F	Н	Т	N	F	Y	D	Т	V	G	T	I	Q	18
																				•	
541	CI	'TA'	CA	ACG/	ACC	ACG	CAZ	\GAZ	\GG <i>I</i>	AAA	CTCC	GAGC	GAZ	AGA I	TGI	rgg?	TTT	'GG'	CAC	NGAG	
181	L	I	N	D	H	V	K	K	E	T	R	G	K	I	V	D	L	V	S	E	20
601	CI	CAZ	AGAZ	AGG	ACG	rcTi	rga?	l'GG'I	rgci	rggr	ľĠAZ	\TT/	CAT	·TT#	CTI	rca <i>i</i>	AAGC	CCI	GTC	GGAG	66
201					v														W	E	22
661	<b>7</b> \ 7	A C (	יחו עיר	ימיחיו	ሙጥጥ	יריתי	ממר	2020 (	יראנ	יייירי	'C'A'	AAGI	رسم د	ריואוירי צ	יבאני	ניזיניו	מבאתו	. C A 1	\CD(	מסממי	72
																				T	
221		-		-		J		•	•	•	*		•	•	•		_	24	•	•	~-
								•									nm				
																					78
241	V	R	V	P	M	M	L	Q	D	Q	E	H	H	W	Y	L	H	D	R	Y	26
																					84
261	L	P	С	S	V	L	R	M	D	Y	K	G	D	A	T	V	F	F	I	L	28

## FIG. 36B

				•							•			•			•			•	
841	CC	TAA	CCA	AGG	CAA	AAT	GAG	GGA	GAT	TGA	AGA	GGT	TCT	GAC	TCC	AGA	GAT	GCT	AAT	GAGG	900
281	P	N	Q	G	K	M	R	E	I	E	E	v	L	T	P	E	M	L	M	R	300
							•				•										0.00
901																				CAAG	960
301	W	N	N	L	L	R	K	R	N	F	Y	K	K	L	E	L	H	L	P	K	320
											•									•	
961	TT	CTC	CAT	TTC	TGC	CTC	CTA	TGT	rTA'	AGA	TCA	GAT	TTT	GCC	CAC	GCI	'GGG	CTI	CAC	GGAT	1020
321	F	s	I	S	G	S	Y	v	L	D	Q	I	L	P	R	L	G	F	T	D	340
1021	CIT.	COOT		ממטי	CTC	·ccc	מיחיי	CDT	ነ አጥር	rece	יראי	ר א ר	מ מ יי	. מרמ	CCA	מממ	ДСТ	YCCI	ccc	ATCC	1080
						. – – -						T				K	L	E	DOD. A	S	360
341	L	F	S	K	W	A	D	L	S	G	I	Т	K	Q	Q	Λ.	ŭ	£	A	3	300
1001												mar				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·mac	13 CC		1140
1081																				CAGCC	
361	K	S	F	Н	K	A	Т	L	D	V	D	E	A	G	т	E	A	A	A	A	380
																				•	
1141	AC	CAC	GTI	CGC	GAI	CAZ	LTA	CTT	CTC	CTGC	CCZ	AGAC	CAA	ATC	CC?	CAI	CCI		TA	CAAC	1200
381	T	T	F	A	I	K	F	F	S	A	Q	Т	N	R	H	I	L	R	F	N	400
																		,			
1201	CG	GCC	CTT	רככיז	rTG1	rgg:	rgan	CTT	rtt(	CAC	CAC	GCAC	CCZ	AGAC	GTG?	נככז	CTT	TCT	rgg(	CAAG	1260
401	R	P	F	L	v	v	I	F	S	$\mathbf{T}$	S	${f T}$	Q	S	v	L	F	L	G	K	420
1261	GI	rcgi	rcgz	ACCC	CAC	CGAZ	AACC	CAT	AG	128	34										
401				.00						420	. –										

## FIG. 37A

1	CGC	CA	ACC	CAA	GTT(	CAA	AGG	CTG	ATA!	AGA	SAG	AAA	ATC	rca'	I'GA	GGA	GGT	TTT	AGT	CTA	60
61 1	GGG	AAA(	GTC	- ATT	CAG'	TGG	ATGʻ	rga!	rct'	rgg(	CTC	ACA	GGG	GAC	GAT M	GTC S	AAG S	CTC' S	TTC S	CTG W	120 6
121	GCT	CCT'	TCT	CAG	CCT	TGT'	TGCʻ	TGT	AAC'	TGC'	rgc'	TCA	GTC	CAC	CAT	TGA	.GGA	ACA	GGC	CAA	180
7	L	L	L	S	L	V	A	V	Т	A	A	Q	S	T	I	E	E	Q	A	K	26
181	GAC.	ATT	TTT	GGA	CAA	GTT	TAA	CCA	CGA.	AGC											240
27	Т	F	L	D	K	F	N	Н	E	A	E	D	L	F	Y	Q	S	S	L	A	46
241 47	TTC S		gaa N			CAC T	CAA N	TAT I	TAC T	TGA E	AGA E		TGT V			CAI M	GAA N	TAA N	TGC A	TGG G	300 66
301	GGA	CAA	ATG	GTC	TGC	CTT:	TTT	AAA	GGA											ACA	360
67	D	K	W	s	A	F	L	K	E	Q	S	т	L	A	Q	M	Y	P	L	Q	86
361	AGA	AAT	TCA	GAA	TCI	CAC	AGT	CAA	.GCT	TCA	GCT	GCA	.GGC	TCT	TCA	\GC#	XAAZ	ATGG	GTC	TTC	420
87	E	I	Q	N	L	T	V	K	L	Q	L	Q	A	L	Q	Q	N	G	S	S	106
421																				CAT	480
107	V	L	S	E	D	K	S	K	R	L	N	т	Ι	L	N	Т	M	S	Т	I	126
481																				AACC	540
127	Y	S	Т	G	K	V	С	N	P	D	N	P	Q	E	С	L	L	L	E	P	146
541	AGG	TTI	'GA	ATG!	\AA!	raat	GGC	CAAA	CAG	- TTT	'AGA	CT	CAA	ATG#	AGAG	GC	rcty	GGG	CTTC	GGA	600
147	G	L	N	E	I	M	A	N	S	L	D	Y	N	E	R	L	W	A	W	E	166
601	AAC	CTC	GAC	GAT(	CTG	AGGT	rcg(	CA	.GC	AGCI	GAC	GC(	CATI	[AT	ATG	AAG	AGT	ATG	rgg:	ICTT	660
167	S	W	R	s	E	V	G	K	Q	L	R	P	L	Y	E	E	Y	V	V	L	186
661	GA	LAA!	ATG	AGA'	rgg	CAAC	GAG	CAA	ATC!	ATT <i>I</i>	ATG!	AGG2	ACTA	ATG	GGG	ATT.	· ATT	GGA	GAG	GAGA	720
187	K	N	E	M	A	R	A	N	Н	Y	E	D	Y	G	D	Y	W	R	G	D	206
721	CT	ATG	AAG'	TAA	ATG	GGG	ragi	ATG	GCT2	ATG!	ACTI	ACA	3CC(	GCG	GCC.	AGT	TGA	TTG	AAG	ATGT	780
207	Y	E	V	N	G	V	D	G	Y	D	Y	S	R	G	Q	L	I	Е	D	V	226
781	GG.	AAC	ATA	CCT	TTG.	AAG	AGA'	TTA	AAC	CAT:	PAT	ATG	AAC	ATC'	TTC.	ATG	CCT	ATG'	TGA	GGGC	840
227	E	Н	т	F	E	E	I	K	P	L	Y	E	Н	L	Н	A	Y	V	R	A	246
841	AA.	AGT'	TGA'	TGA	ATG	CCT	ATC	CTT	CCT	ATA'	FCA	GTC	CAA'	TTG	GAT	GCC	TCC	CTG	CTC.	TTTA	900
247	K	L	M	N	Α	Y	P	S	Y	I	S	P	I	G	С	L	P	A	H	L	266

## FIG. 37B

901	CCM	mcc	mc x	•	CMC		™>.	a mm	നനവ		מגג	መረመ	Cm _N	СтС	ጥጥጥ	GAC	እርጥ	ጥርር	СФФ	TYCG	960
	L																		F		286
20,		•	_	••	••	Ū	••		••	-		_	•		_	_	•	•	-	_	
961	ACA	GA A	ACC	מממי	САТ	אסבי	ТСТ	ጥልር	тса	ТСС	אמת	сст	GGA	CCA	GGC	СТС	GGA	TGC	ACA	GAG	1020
	Q																				306
	*		-		-	-	•	_	_			•	_	-					•		
1021	אאת	יא חית	א איי		ccc	יככז	СЛЛ	COT		••••••••••••••••••••••••••••••••••••	יש מי	יחיביתי	ጣርር	'T'C'T'	ጥርር	ጥልል	ጥልጥ	GAC	ТСД	AGG	1080
307													G								326
307	_	F	K	E	Λ	-	1	Ľ	r	٧	5	٧	•	٠	•	.,		•	¥	•	320
1081	» ma	OMO			mme			N N C			ארכי	א א אי	men	• •	ממכ	200	·	CITIC	CCA	TCC	1140
327																					346
321	r	**	Ľ	14	3	M		•		•	•		•	¥	•	•	•	Č		•	3.0
1141	CAC	·». C.C	יששר	•			'C	000	יככז	·	יראר	יראיו	<b>УСС</b> П	יייא ת	CTC	יראר		രവ	GAC	עעע	1200
347													L								366
241	•		**	J	J	G		J		•	•	•	~		Ū	•		•	•	••	300
1201	GGZ	\CGI	CTPT		രമാ	י א כי כי	מריחי	יייר צ	יתכש	ran	יככנ	acc a	רביי	'CC'	ረም እ	ሳር ነው ስ		ነርርር	מידמי	TGC	1260
367																					386
50.	_	_	-	_	-								_	~							
1261	ጥርር	TACZ	AACC	- - -	ייייכי	rgca	מאמי	SAAZ	ATG0	BAGC	TAA	ATG <i>I</i>	AAGG	· ETA	CCA	TGA	AGC	TGI	TGG	GGA	1320
387																				E	406
		_																			
1321	AA	rcar	rgro	CAC	r <del>r</del> r(	CTGO	CAGO	CAC	CACC	XATC	AGC <i>I</i>	TTT	raa?	ATC	CAT	TGG	TCI	TCI	GTC	ACC	1380
407																					426
1381	CG	ATT!	rtc	AAG	AAG	ACAZ	ATG!	AAA(	CAG	AAA!	['AA <i>]</i>	ACT	rcci	rgc:1	CAZ	AAC	AAGO	CACI	CAC	GAT	1440
427																				I	446
1441	'TG'	TTG	GGA	CTC'	TGC	CAT	· PTAC	CTT	ACA!	rgt:	· ragi	AGAZ	AGT	GGA(	GTO	GA?	rgg:	r <b>CT</b> I	ATT.	AAGG	1500
447	v	G	T	L	P	F	T	Y	M	L	E	K	W	R	W	M	V	F	K	G	466
1501	GG	AAA'	TTC	CCA	AAG.	ACC	AGT	GGA'	rga.	AAA	AGT(	GT	GGGZ	AGA:	rga.	AGC	GAGI	AGAT	ragi	TGG	1560
467	E	I	P	K	D	Q	W	M	K	K	W	W	E	M	K	R	E	I	v	G	486
1561	GG	TGG	TGG.	AAC	CTG	TGC	ccci	ATG.	ATG	AAA	· CAT	ACT	GTG	ACC	CCG	TAC	CTC	rgt"	rcc <i>i</i>	ATGT	1620
487	v	v	E	P	v	P	H	D	E	T	Y	C	D	P	A	S	L	F	H	V	506
1621	mm	CULY	አ ሙር	٠ ۲ سس	א כיתי	ייי ע	ייע איים	መጥር	ርአጥ	<b>አ</b> ጥጥ	• a ~ a •	ממח	CCA	٠	րդու	אככי	• ነጥ ፈ ፈ	דירים:	CTT	ייייר א	1680
																				Q	
507	٥	.,	ر	•		•	_	• • •	•	•	-	- `	-	_	-	*	_	~	-	-	
1681	אר	ממבי	ርአር	•	CTTC	ል <b>ል</b> ር	CAG	ርጥ አ	ממ	ביעע	A A C	ഭേഗ	ርጥር	ፕር-ር	47 <i>A</i>	ጥፋል	СТС	ACA'	rcre	CAAS	1746
																				N	

## FIG. 37C

1741	CTC	TAC	AGA	AGC	rggz													AGA.	ACC	CTG	1800
547	S	Т	E	A	G	Q	K	L	F	N	M	L	R	L	G	K	S	E	P	W	566
				•										•							4063
1801	GAC																			CAA	1860
567	T	L	A	L	E	N	V	V	G	A	K	N	M	N	V	R	P	L	L	N	586
1861	СТА	CTT	TGA	GCC	CTT.	ATT'	TAC	CTG	GCT	GAA	AGA	CCA	GAA	CAA	GAA	TTC	TTT	TGT	GGG	ATG	1920
587	Y	F	E	P	L	F	T	W	L	K	D	Q	N	K	N	S	F	V	G	W	606
1921	GAG	TAC	CGA	CTG	GAG	TCC	ATA	TGC	AGA	CCA	AAC	CAI	CAA	AGT	GAG	GAT	AAG	CCT	AAA	ATC	1980
607	s	T	D	W	S	P	Y	A	D	Q	S	I	K	V	R	I	S	L	K	S	626
1981																				ATC	2040
627	A	L	G	D	K	A	Y	E	W	N	D	N	E	M	Y	L	F	R	S	S	646
2041	TGT	rtgo	CATA	TGC	TAT	GAG	GCA	GTA	CTI	ני <b>דיד</b> יו	['AA <i>]</i>	\AG?	LAAI	AAA	ATC	AGAI	GAT	TCI	rTT	TGG	2100
647			Y															L		G	666
2101	GG	AGGZ	AGGZ	ATGI	GCG	AGI	rggc	TAZ	TT	rga <i>i</i>	AAC	CAAC	GAA!	PCT	CCT	TA.	· \TTI	CTI	rTGT	CAC	2160
667			D												F			F			686
2161	TG	CAC	CTA	\AA;	\ <b>C</b> G1	rgro	CTG#	ATA:	rca:	rtc(	CTA	GAA	CTG	AAG'	TTG	AAA	AGG(	CA	CAC	GAT	2220
687	A	P	K	N	V	s	D	I	I	P	R	T	E	V	E	K	A	I	R	M	706
2221	GТ	CCC	GGAG	GCCC	TAT	rca?	ATG	ATG	CTT'	rcc	GTC	TGA.	ATG.	ACA	ACA	GCC!	· ragi	AGT"	rtc:	rggg	2280
707			s			N		A								L				G	726
2281	CA	m x 🗠	3 C C (	~~~	~ <b>a C</b> r	חיותכינ	2000	ጉጥ <i>ር (</i>	רתים	ልሮሮ	AGC	ccc	ርጥር	փունուն •	CCA	ጥልጥና	GC'	TGA'	ragi	PTTT	2340
727			P			G		P	N	Q	P	P	v	s	I	W	L	I	V	F	746
2341	TG	GAG	TTG'	TGA'	rgge	GAG'	TGA	TAG	TGG	TTG	GCA	TTG	TCA	TCC	TGA	TCT'	TCA	CTG	GGA'	TCAG	2400
747	G	V	v	M	G	V	I	V	V	G	I	V	I	L	I	F	Т	G	I	R	766
2401	3.0	N MC		NCN	3 C 3	<b>777</b>	תחת	3 A C	ר א יי	CAA	Стс	CAC	מ מ מי	ልጥር	יריתית	እ <b>ጥ</b> ር	ርርጥ	CCA	ጥሮር	TATA	2460
	AG D																				786
2461	ጥጀ	AGC 3	AAG	GAG	ααα	<b>ልጥል</b>	АТС	CAG	GAT	TCC	:AAA	ACA	CTC	ATC	ATG	TTC	AGA	CCT	CCT	ATTT	2520
																				*	
2521	. GZ	\AA/	OTA.	TAT	GTT	TTT	CCT	CTI	'GAG	GTG	ETA	TTT	TTC	TAT	'GTA	AAT	GTT	'AAT	TTC	ATGG	2580
2581	тz	ነጥ ልጥ	<b>ZAA</b> 2	ATA	ТАА	GAT	GAT	מממי	GAT	ATC	CATT	LAA!	ATGT	CAZ	AAAC	TAT	GAC	TCT	GTT	CAGA	2640

# FIG. 37D

2641	AAAAAAATTGTCCAAAGACAACATGGCCAAGGAGAGAGAG	2700
2701	AGTATTTATTTCTGTCTCTGGATTTGACTTCTGTTCTGT	2760
2761	TAGAGTATATTAGGGAAAGTGTGTATTTGGTCTCACAGGCTGTTCAGGGATAATCTAAAT	2820
2821	GTAAATGTCTGTTGAATTTCTGAAGTTGAAAACAAGGATATATCATTGGAGCAAGTGTTG	2880
2881	GATCTTGTATGGAATATGGATGGATCACTTGTAAGGACAGTGCCTGGGAACTGGTGTAGC	2940
2941	TGCAAGGATTGAGAATGGCATGCATTAGCTCACTTTCATTTAATCCATTGTCAAGGATGA	3000
3001	CATGCTTTCTTCACAGTAACTCAGTTCAAGTACTATGGTGATTTGCCTACAGTGATGTTT	3060
3061	GGAATCGATCATGCTTTCTTCAAGGTGACAGGTCTAAAGAGAGAAGAATCCAGGGAACAG	3120
3121	GTAGAGGACATTGCTTTTTCACTTCCAAGGTGCTTGATCAACATCTCCCTGACAACACAA	3180
3181	AACTAGAGCCAGGGGCCTCCGTGAACTCCCAGAGCATGCCTGATAGAAACTCATTTCTAC	324
3241	TGTTCTCTAACTGTGGAGTGAATGGAAATTCCAACTGTATGTTCACCCTCTGAAGTGGGT	330
3301	ACCCAGTCTCTTAAATCTTTTGTATTTGCTCACAGTGTTTGAGCAGTGCTGAGCACAAAG	336
3361	CAGACACTCAATAAATGCTAGATTTACACACTCAAAAAAAA	

## FIG. 38A

	atg M			C P		gaa K	GAT I		YAA M	GTTT F	CTC L		rgi' V				CTC S	CGT( V		T	60 20
	ACG T						CGA D			CAAT N					AAGG G			TCT:		GGGG G	120 40
										AGTG V						GCT L		CAC			180 60
										GCTG L								TGT V			240 80
					TGC# H				CTG C	CACG T	GT(				TCTA Y				CCT( L		300 100
										GCTG L							CAT I		CAA N		360 120
					TCT:					CTGC C						CAT I			CAT M		420 140
421 141	CT(	STA Y	CAG S	CA S	GCA'	rct( C	GTTT F	CCI	rgat M	GCTG L	GT V	GAG S	CAT I	CG D	ACC	GCTI Y	ACCT L	GGC A	CCT L	GGTG V	480 160
	AA K				CCA'	TGG( G	GCCG R	GAT M	rgco R	G G	GT V	GCG R	CTC W	GG A	CCA.	AGC'	PCTA Y	CAC S	CTT L	GGTG V	540 180
	ATO									SCTCA S					TGT				rgaa K		600 200
	. TA						ACAA N			CCGCT A			CA'					CC1	rcat I	CTGG W	660 220
661 221	. GA . E	AGI V	GTT F	CA T	CCA	ACA M	TGCT	r CC	TGA. N	ATGTC V	C G1	reco G	SCT' F	rcc L	TGC	TGC P	CCCI L	GA(	TGT V	CATC I	720 240
721 241	L AC	CTI F	CTC	CA T	. CGA	TGC	AGAT	CA'	TGC:	aggto V	G CT L	rgc( R	GGA. N	ACA N	A ACG	AGA M	TGC <i>I</i>	A GA	AGT1 F	ICAAG K	780 260
781 261	L GA L E	GAT	CC#	AGA T	CGG	AGA E F	LGGAC R R	GG A	CCA T	CGGT(	G C! L	PAG' V	rcc L	TGC V	G TTG / V	TGC L	TGCT	r GC L	TAT? F	CATC I	280 280
84: 28:	1 AT	CTC	CTC W	GGC I	TGC	CCI	TCC!	A. GA I	TCA	GCAC	C T	rcc L	TGG D	ATZ	A CGC	TGC	'ATC	G CC L	TCG( G	GCATO	900

#### FIG. 38B

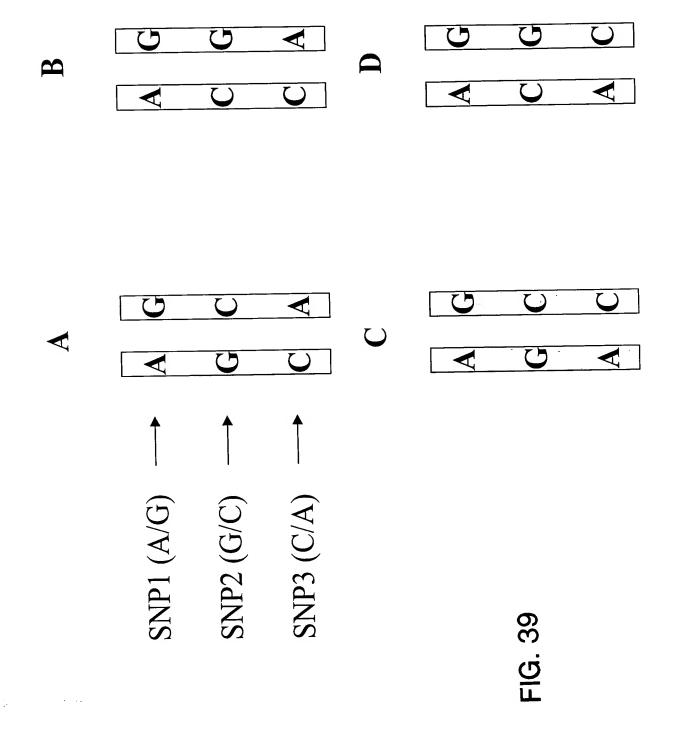
901 301		TC S	CAG S	CT C	GCC. Q	_		GA E	GCG(	I I	I	GAI D	V	YFAA I	T	CACA( Q	TAE I	CGC A	CTC(	CTT( F	CATG M	960 320
961 321					ACA S			CT L		CCC P	ACTG L	GT V	GTA Y	CGT V	GA I	TCGT V	GGG G	CAA K	GCG R	CTT( F	CCGA R	1020 3 <b>4</b> 0
1021 341				TT W		AG				GGG G		TG C	CCA Q	GAA K	AG X	nggg G	CTG C	CAG R	GTC S	AGA. E	ACCC P	1080 360
1081 361							TC( S	CAT M	GGG G		ACTG L	CG R	GAC T	CTC S	CA I	TCTC S	CGT V	GGA E	ACG R	CCA Q	GATT I	1140 380
11 <b>4</b> 1 381				TGC Q	_	GAC O				GAG S		C.A.		AGC	:AA	ACGC	CAG	CAG	GGC	:TGC	TGTG	1200 391
1201	AA	TTI	GTC	STA	AGO	TAE	TG.	AGG	GAC	AGT	TGCT	T	TC	\GC#	ATG	GGC	CAG	GAA	TGC	CAA	LGGAG	1260
1261	AC	ATC	CTA!	rgc	ACC	GAC	CT	TGG	GAA	ATG	SAGTI	GZ	ATG:	CTC	CCG	GTA	AAA	PACC	GGZ	\GAC	TAAT	1320
1321	тC	CTO	3CC	CTG	CC	CAZ	\TT	TTG	CAG	GG <i>I</i>	AGCAI	G	GCT(	GTG2	AGG	ATG	GG7	IGAA	CTO	CACC	SCACA	1380
1381	. GC	CA	AGG.	ACT	· cc.	AAZ	LAA	CAC	AAC	CAGO	CATTA	A C'	rgt	rct'	TAT	TTG	CTG	CCAC	AC	CTG/	AGCCA	1440
1441	. GC	CTY	GCT	CCI	TC	CCZ	AGC	AGT	GGI	AGGZ	AGGC	: T	GGG	GGG.	AGG	GAG	AGG	AGTG	AC	TGA(	SCTTC	1500
1501	L CO	CTC	CCG	TGI	GT	TC'	TCC	GTC	cc'	rgc	CCCA	G C	AAG	ACA	ACT	TAG	ATC'	TCC#	GG	AGA	ACTGC	1560
1561	l C	ATC	CAG	CTI	TG	GT	GC <i>I</i>	OTA	GC'	TGA	GTGC.	A C	AAG	TGA	GTI	GTT	GCC	CTGC	GT	TTC	AATTT	1620
162	1 T	CTA	TTC	:AGC	C TA	GA	AC.	rttc	AA	GGA	CAAT	T T	CTT	GCA	TT?	ATA	AAG	GTT	A AG	ccc	TGAGG	1680
168	1 G	GTC	CC1	GA!	Pap	CA	AC	CTG	AG	ACC	AGGA	т т	TTA	TGG	CTO	C CCC	TCA	CTG	A TG	GAC	AAGG#	1740
174	1 G	GTC	TGT	rgc	C A/	<b>LA</b> G	AA	GAA:	rcc	AAT	'AAGC	A C	TAT.	TTG	AGC	C ACI	TGC	TGT	A TA	'TGC	AGTAT	r 1800
180	1 т	GAG	CAC	CTG'	T AC	GGC	AA	GAC	C CA	AGA	AAGA	.G <i>I</i>	AAGC	SAGO	CA!	r ctc	CAT	CTT	G A7	LGGA	ACTC	A 1860
186	1 A	AG	CTC	CAA	G T	GGG	AA	.CGA	C TG	GGC	CACTO	SC (	CAC	CAC	CAG	A AAG	CTC	TTC	G A	:GAG	SACGG'	r 1920
192	1 0	GA(	3CA	GGG	TG	CTC	GTG	GGT	G AT	TATO	GGAC <i>I</i>	AG (	CAG	AAG	3GG	G AG	ACCZ	AAGG	T TO	CAC	CTCA	A 198
198	1 0	CA	ATA	ACT	A T	TG	CAC	AAC	C A	CTY	GTCC	CT (	GCC'	TCA	GTT	c cc	rrr:	PTAT	T A	ACA?	rgaag	T 204

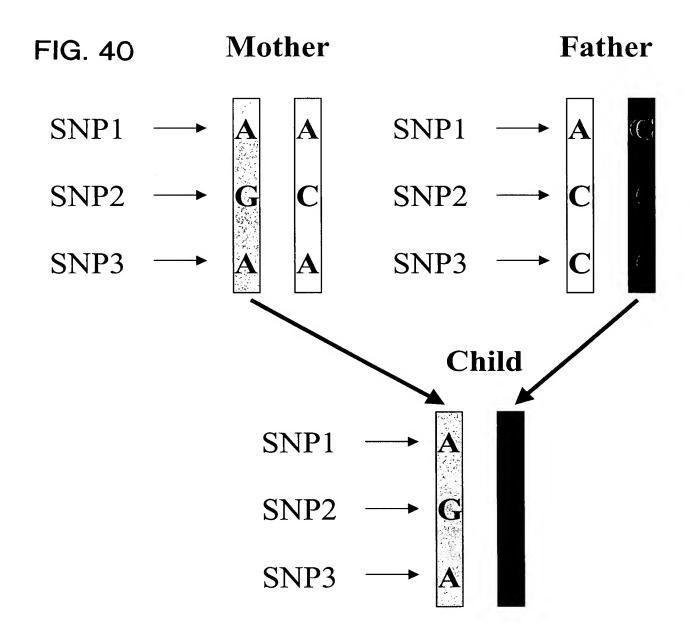
#### **FIG. 38C**

2041 CGTTGTGAGG GTTAAAGGCA GTAACAGGTA TAAAGTACTT AGAAAAGCAA AGGGTGCTAC 2100 2101 GTACATGTGA GGCATCATTA CGCAGACGTA ACTGGGATAT GTTTACTATA AGGAAAAGAC 2160 2161 ACTGAGGTCT AGAAATAGCT CCGTGGAGCA GAATCAGTAT TGGGAGCCGG TGGCGGTGTG 2220 2221 AAGCACCAGT GTCTGGCACA CAGTAGGTGC TCATTGGCTC CCTTCCACCT GTCATTCCCA 2280 2281 CCACCCTGAG GCCCCAACCG CCACACACA AGGAGCATTT GGAGAGAAGG CCATGTCTTC 2340 2341 AAAGTCTGAT TTGTGATGAG GCAGAGGAAG ATATTTCTAA TCGGTCTTGC CCAGAGGATC 2400 2401 ACAGTGCTGA GACCCCCCAC CACCAGCCGG TACCTGGGAA GGGGGAGAGT GCAGGCCTGC 2460 2461 TCAGGGACTG TTCCTGTCTC AGCAACCAAG GGATTGTTCC TGTCAATCAA TGGTTTATTG 2520 2521 GAAGGTGGCC CAGTATGAGC CCTAGAAGAG TGTGAAAAGG AATGGCAATG GTGTTCACCA 2580 2581 TCGGCAGTGC CAGGGCAGCA CTCATTCACT TGATAAATGA ATATTTATTA GCTGGTTGGA 2640 2641 GAGCTAGAAC CTGGAGAGCT AGAACCTGGA GAACTAGAAC CTGGAGGGCT AGAACCTGGA 2700 2701 GAGGCTAGAA CCAAGAAGGG CTAGAACCTG GAGGGGCTAG AACCTAGAGA AGCTAAAACC 2760 2761 TGAGCTAGAA GCTGGAGGAC TAGAACCTGG AGGGCTGGAA TCTGAAGGGC TAGAACCTGG 2820 2821 AGGGCTGGAA TCTGGAGAGC TAGAACCTGG AGGGCTAGAA CCTGGAGGGC TAGAACCTAG 2880 2881 AAGGGCTAGA ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG 2940 2941 GAGGGCTAGA ACCTAGAAGG GCTAGAACCT GGAGGGCTAG AACCTGGCAG GTTAGAACCT 3000 3001 AGAAGGGCTA GAACCTGGAG AGCCAGAACC TGGAGGGCTA GAACCTGGAA GGGCTAGAAC 3060 3061 CTGTAGAGCT AGAACATGGA GAGCTAGAAC CCGGCAGGCT AGAACCTGGC AAGCTAGAAC 3120 3121 CTGGAGGGAA TGAACCTGGA GGGCTAGAAC CTGGAGAATG AGAAAAATTT ACATGGCAAA 3180 3181 GAGCCCATAA ATCCTGACCA ATCCAACTCT GAATTTTAAA GCAAAAGCGT GAAAAAAAA 3240

#### FIG. 38D

3241 ATTCCCTCCT TACCCCCAAC CCACTCTTT TTCCCACCAC CCACTCTCCT CTGCCTCAGT 3300
3301 AAGTATCTGG AGGAAGAAAA CAGGTGAAAG AAGAAGTAAA AACCATTTAG TATTAGTATT 3360
3361 AGAATGAAGT CAAACTGTGC CACACATGGT GAATGAAAAA AAAAAAAAAG AGGCTGTGTT 3420
3421 TTGTCACACA GGGCAGTCAT TCAGCACCAG AGCACGTGAT GGTCTGAGAC TCTCTTAGGA 3480
3481 GCAGAGCTCT GCCGCAATGG CCATGTGGGG ATCCACACCT GGTCTGAGGG GCAACTGAGT 3540
3541 CTGCGGGAGA AGAGCGGCCC TATGCATGGT GTAGATGCCC TGATAAAGAA CATCTGTCCT 3600
3601 GTGAAAGACT CAATGAGCTG TTATGTTGTA AACAGGAAGC ATTTCACATC CAAACGAGAA 3660
3661 AATCATGTAA ACATGTGTCT TTTCTGTAGA GCATAAATAAA TGGATGAGGT TTTTGCAAAA 3720
3721 AAAAAAAAAA AAA 3733





#### FIG. 41A

1	CACCCTATCC	TACACTACTA	GGAACTTGCA	CAGTCCGCCT	CGGGCAGCCC	AAAGCTCCTC	60
61	TGCCCACCCT	GGCTCCCAAA	ACCCTCCAAA	ACAAAAGACC	AGAAAAGCAC	TCTCCACCCA	120
121	GCAGCCAAAC	GCCTCCTTCT	TGACGCCAGC	CCCCACCCTC	TGTCTGCTCG	AGCCCAGGAA	180
181	AGGCCTGAAG	GAACAGGCCG	GGGAAGGAGC	CCTCCCTCTC	TCCCTTGTCC	CTCCATCCAC	240
2 <b>41</b> 1	CCAGCGCCGG	CATCTGGAGA	CCCTATGGCC M A	CGGGCTCACT R A H W		CCCCTGGCTG P W L	300 12
	GTCCTCCTCT V L L C		CTGGGGCCAC W G H	ACAAAGCCAC T K P I		AGGGCAGGAT G Q D	360 32
	GTGAGAAATT V R N C				A CTGTGGTCAA T V V N	TACCACAATG T T M	420 52
	TCACTCACAG S L T A		GCAGATGCAG Q M Q	ACCCAGAATO		CATCATCCCA I I P	480 72
		G CTCACATGAA A H M N		GGCCAACAT		TGCGTGGATT A W I	540 92
		A CAGGGTCTGC T G S A	AGGAACTGCA G T A		A TGAAGAAAGO M K K A	AGCTGTCTGG A V W	600 112
	ACCGACAGTO		TCAGGCTGAG Q A E	G CGGCAAATG R Q M	G ACTGTAATTO D C N W	GGAGCTCCAT ELH	660 132
	AAGGAAGTT				A CCGAGATTCO T E I P	C TGCTGGAGGG A G G	720 152
721 153	l cgtgtggt 3 r v g :	T TTGACCCCT F D P F	T CCTCTTGTCC L L S	C ATTGACACC I D T	T GGGAGAGTT W E S Y	A TGATCTGGCO D L A	780 172
781 173	L CTCCAAGGC 3 L Q G	T CTAACAGAC S N R Q	A GCTGGTGTCC L V S	C ATCACAACO I T T	A ATCTTGTGG. N L V D	A CCTGGTATGG L V W	840 192
84: 19:	1 GGATCAGAG 3 G S E	A GGCCACCGG R P P V	T TCCAAATCA P N Q	A CCCATTTAT P I Y	NG CCCTGCAGG A L Q E	A GGCATTCACA A F T	900 212
90	1 GGGAGCACT	T GGCAGGAGA	A AGTATCTGG	C GTCCGAAGG	CC AGATGCAGA	A GCATCAAAAQ H O K	3 960 232

# FIG. 41B

961	l GI	ccc	GAC	TG	CCGT	CCT	rct	GTC	GC(						CCTG						
233	3 V	P	T	A	V	L	L	S	A	L	E	E	T	A	W	L	F	N	L	R	252
															CGCT( L			AGA( D			1080 272
					TTGC A										CCTT(			TCT L			1140 292
															gcca Q						1200 312
120 31	1 C2 3 Q	AGGC A	CTA Y	CT S	CATT L	rece G	AGA D	TGT V	GAG R	GATC I	TG: W	GAT I	TGG G	GA T	CCAG S		TAC T				1260 332
															CCTA Y						1320 352
															AGGC A						1380 372
138 37	1 G	CTG' V	rgg( A	CTG V	TGA'	TCCG R	GTA Y	CTI	GGT V	CTGG W	CT L	GGA E	GAA K	GA N	ACGT V	GCC P	CAA K	AGG G	CAC T	AGTG V	1440 392
															GAG <i>I</i> E						1500 <b>4</b> 12
															CTG(						1560 432
	51 C					TGAJ N				rgtcc s			ATGI E			L L		GGZ D			1620 452
162 45	21 G 53 G	GGC Q	AGT Y	ACT W	GGG I D	ACG(	GAC T	CAC T	CAGI D	ACATO	T T	CA( R	GAA( T	CAG V	TCCI H	ACTO W	G G	CAC	P	CTCT S	1680 472
										TGTG V							ACCT L			GCTC L	1740 492
															TTG				CCTT L		1800 512
										GGAC <i>i</i> T							ACTI F			STGTG V	1860 532

## FIG. 41C

1861													GCT A		TGGC A		G G		STT( F	CACT T	1920 552
533	Н	E	W	P	V	G	F	Q	S	N	N	1	A	M	A	K	G	M	£	•	JJ4
1921 553								TAA( K					rgg( G			TCT( L			rgt( V	GGCT A	1980 572
1981 573	CT(	CGT V	GGT V	AG E	AAGC A	:AAA K	GAC T	CAA K	GTA Y	CCCA P	GG( G	GGA(	GCT/ L	AC P		CCT L		GGT. V	ATC. S	ATTT F	2040 592
2041 593	GIY	GCC P	CTA Y	TG D	ACCC R	GAA N	CCT L	CAT I	CGA D	TGTC V	AG S	CCT L	GCT(	GT S	CTCC P	CGA E	GCA H	TCT L	CCA Q	GTAC Y	2100 612
2101 613										GGAG E						GCT L		GAG R	GCG R	CCAG Q	2160 632
2161 633						rcga E			TCA Q			CAC T		GC P	CCCI	'GGC A	CGC A	CAG R	GGC A	CCCA P	2220 652
2221 653							CCTC S						CAC T				CCT L	TGC G	CTC W	SGAGT S	2280 672
2281 673			AGA(	GGC	TCC	AGA	CTCT	CCI	rgti	PAACC	CI	CCA	ATCI	` 'AG	ATG	GGG	GCT	cco	TTC	ECTTA	2340 673
2341	. GC	TCC	ccc	rca	ccc	TGC	ACTG	AA	CATA	ACCCC	: AZ	GAC	ecc.	CT	GCT	GGC	CCAT	TG	CCT	AGAAA	2400
2401	. co	CTT	rgc.	TTA	CAT	CCT	CCTT	CTO	CCA	AGACO	: T2	ATGO	GAGZ	AAG	GTC	CCA	GGCC	cc	AGG	AAACA	2460
2461	L CZ	AGG	GCT	TCI	TGG	ccc	CAGA	TG	GCA	CCTCC	C C	rgcz	ACC	CCG	GGG	TTG	TATA	CC	ACA	CCCTG	2520
2521	L G	GCC(	CCT	Paa	r ccc	AGG	cccc	GA.	AAT	AGGA	A A	GCC	AGC'	rac	TCT	СТТ	CTCI	TC	TGT	GATCI	2580
258:	1 C	AGT.	AGG	CCI	r aac	CTA	TAAC	CT	AAC.	ACAG	A C'	TGC	TAC	AGC	TGC	TCC	CCT	c cc	GCC.	AAAC <i>i</i>	2640
264	1 A	AGC	ccc	AAC	G AA <i>l</i>	AACA	ATG	c cc	CTA	CCAC	C C	AAG	GGT	GC	ATG	GTC	ccc	G GA	AAA	CCCAI	2700
270	1 C	CTG	TCA	CCC	G CG	rgti	GGG	C GT	'AAC	CAGA	A C	TGT	TCC	CC	CCZ	CCA	.GGG(	C TI	AAA	AATC	2760
																		•			A 2820
***	•							_							•						r 2880
288	1 2	CCT	POTO C	ጉልጥ	כי ככ	אאכי	DAAC	A GC	AGA	AGGGA	GI	TAA	GCC	AT.	A GG	TAA	MGG	C TO	TGC	AGTA	A 2940

#### FIG. 41D

2941 GAGGGAATGC GGTGAGGCAG TGTGGAATAT GACCCTACCA GAGGTTGGAG AACAAACTTG 3000 3001 GGCAGCCGGA ACCCGTCACT ATTTTAGATT CCTGGCATTC GAGGAGCCCT TTGAACTTTC 3060 3061 CAAAGTGCAG CCACAGCTAC AATGCTGTTA AATCCTCCCA CATTTCTTGG ATGCCCCTTC 3120 3121 ACCTTGTGTG GACAGTGTCT GGTTTCCCCA TTTTACAGAC AGGAAAACTG AGCTTCAGAC 3180 3181 AGGGGTGGG CTTTGCCTAA GGACACACA ATTTGGTTGG GAGTTGATGG GGCCAGATGA 3240 3241 GCCAGCATTC CAGCTGTTTC ACCCTTCAGC AACATGCAGA GTCCCTGAGC CCACCTCCCA 3300 3301 GCCCTCTCCT CATTCTCTGA ACCCACTGTG GTGAGAAGAA TTTGCTCCGG CCAAATTGGC 3360 3361 CGTTAGCCAC CTGGGTCCAC ATCCTGCTAA GACGTTTAAA ACAGCCTAAC AAAGACACTT 3420

3421 GCCTGTGG 3428

### FIG. 42A

1	CTG		ATC M		CAT( S	CAT S	CCI	rg ( V	P P	P	rcta L	GA E	GC: L	rcc: Q	AAT S	C	CTC( S	CAAC N	CA Q	GAG( S	CCA( Q	GCTC L	60 18
61 19	TTC F	CCI P	CAA Q	AA . N	ATG A	CTA T	CG	GC (	CTG1 C	rga D	CAAI N	G A	CTC( P	CAG. E	AAG A	C	CTG( W	GGA( D	CCT L	GCT L	GCA H	CAGA R	120 38
121 39	GTG V	CTC L	P P	GA T	CAT F	TT?	ATC.	AT (	CTC(	CAT	CTGI C	T T	rct F	TCG G	GCC L	T	CCT. L	AGG G	GAA N	CCT L	TTT F	TGTC V	180 58
181 59	CTG L	TTC L	GT( V	CT F	TCC L	TC(	CTG L	CC P	CCG( R	GCG R	GCA <i>I</i> Q	A C' L	TGA N	ACG V	TGG	C	AGA E	TAA I	CTA Y	CCT L	GGC A	CAAC N	240 78
241 79	CTC L	GC: A	AGC A	CT S	CTG E	ATC	CTG L	GT V	GTT F	TGT V	CTTC	3 G G	GCT L	TGC F	CCT	T	CTG W	GGC A	AGA E	GAA N	TAT I	CTGG W	300 98
301 99	AA( N	CCA Q	GTT F	TA N	ACT W	GG V	CCT P	TT F	CGG G	AGC A	CCT L	C C L	TCI	GCC F	GTC R V	3 T 7	CAT I	CAA N	.cgg G	GG7	radi I	CAAG K	360 118
361 119	GC(	CAA N	TTT L	GT F	TC#	ATC I	AGC S	TAT I	CTT F	CCI L	rggt V	G G V	TGC	3CC1	ATCI	A. C S	SCC# Q	AGG# D	CCG R	CTI Y	ACC(	ECGTG V	420 138
421 139	CT L	GGT V	GCA H	CC P	CT/	ATG M	GC( A	CAG S	CGG	AAC R	egca Q	G C	AGC	CGG(	CGG/ R 1	A. ( R	GGC1	AGG( A	CCCG R	GG'	CAC T	CCTGC C	158
481 159	GT V	GCI L	CAT I	TCT W	GG	gti V	'GT( V	GG G	GGC G	SCC!	rctt L	G I	AGC:	ATC	CCC.	A (	CAT!	rcc:	rgct L	GC R	GAT( S	CCATO	540 178
541 179	L CA	AGC A	CG: V	P	CA	gaj D	rcto L	GAA N	CAT	rca T	CCGC A	CC 1	rgc. C	ATC I	CTG L	C	TCC' L	TCC( P	CCC# H	TG E	AGG A	CCTG(	3 600 198
	L CA 9 H					ATT I	rgt V	GGA E	GT.	TAA N	I.	PT (	CTG L	GGT G	TTC F	C L	TCC L	TAC P	CACT L	GG A	CTG A	CGAT	C 660 218
66: 21:	1 G7 9 V	rct F	rct F	TCA 1	A AC	TAC Y	CCA H	CAT I	CC'	TGG A	CCT(	CC	CTG L	CGA R	ACG T	E R	GGG E	AGG E	AGG'	P CA S	.GCA	GGAC.	A 720 238
72 23	1 A( 9 R	GAG V	TGC Q	AG(	G GG G	ECC P	gaa K	GGA D	TA S	GCA K	AGA(	cc .	ACA T	GCC A	CTC L	SA I	TCC	TCA T	CGC'	r co	TGG V	STTGC 7 A	C 780 258
78 25	1 T	TCC L	TGG V	TC:	IGC	CTG W	GGC A	CCC P	TT Y	'ACC	CACT I F	TC	TTI F	GC( A	TTC F	CC L	TGG	aat E F	TCT L	TAT	rtcc ? (	CAGGT V	G 840 278
8.4	1 C	AAG	CAG	TC	C G	AGG	CTC	CT?	r TI	'GGC	GAGG	AC	TTC	CAT	rga(	cc	TGC	GCC	TGC	A A	rtg	GCCAA	C 900

#### FIG. 42B

901 299		rgc( A		TCAC T	TAA N		CTC		GAAT N			AAT I	TT Y	atgt V	CTI F	TGT V		CCG R		960 318
961 319	CAG R		CA K	AGGT V		GGA E					ATG C		CC P		AAA S		TGC A		AATA I	1020 338
1021 339	TTC. S	ATC S	СС Н		GAA K		AAT I	CTT F	CCAA Q	CT L	TTI F	CTG W	GC R	ggaj N	\TT2 *	AAAA	CAG	CAT	TGAA	1080 353

1081 CC 1082

### FIG. 43A

			S S			GAAC K	TAE	ATCI S	AAT( M	F	CTC L	TCT S	'GT'	rc R	GTGA E	GGC <u>A</u>	ctc s	CGT(	P P	T	60 20
61 21	ACC T	GGC( A	CTC: S	PT F	TCAG S	CGC( A	CGA D	CAT M	GCT(	CAAT N	V GT(	CAC(	CTT( L	GC Q	AAGG G	GCC P	CAC T	TCT" L	raac N	CGGG G	120 40
121 41	ACC T	CTT F	TGC( A	CC Q	agag S	CAAI K	ATG C	CCC	CCA.	agtg V	GA(	gtg( W	GCT L	GG G	GCTG W	GCT L	CAA N	CAC	CAT(	CCAG Q	180 60
181 61	CC(	CCC P	CTT F	CC L	TCTG W	GGT( V	GCT L	GTT F	CGT V	GCTG L	GC(	CAC T	CCT L	AG E	aga <i>i</i> N	CAT	CTT F	TGT V	CCT( L	CAGC S	240 80
2 <b>4</b> 1 81	GT V	CTT F	CTG C	CC L	TGCA H	CAA K	GAG S	CAG S	CTG C	CACG T	V GT	GGC. A	AGA E	GA I	TCT? Y	L L	G G	gaa N	CCT L	GGCC A	300 100
301 101	GC. A	AGC A	AGA D	CC L	TGAT I	CCT L	GGC A	CTG C	cgg G	GCTG L	CC P	CTT F	CTG W	GG A	CCA.	CAC T	CAT I	CTC S	CAA N	caac N	360 120
361 121	TT F	CGA D	CTG W	GC L	TCTT F	TGG G	GGA E	GAC T	GCT L	CTGC C	CG R	CGT V	GGI V	GA N	ATG(	CCAT I	TAT I	CTC S	CAT M	GAAC N	420 140
421 141	CT L	GTA Y	CAG S	CA S	GCAT	CTG C	TTT F	CCI	rgat M	GCTG L	GT V	GAG S	CAT I	POP	ACC R	GCTI Y	ACCT L	GGC A	CCT L	GGTG V	480 160
481 161	AA K	)AA. T	CAC M	TGT S	CCA!	G G	ECCG R	GAT M	rgco R	G G	GT V	GCG R	CTC W	GGG A	CCA K	AGC' L	CTA Y	CAC S	ECTI L	Y V	540 180
541 181	I.	VETO W	G G	GT C	GTA(	CGC1 L	GCT L	CC	rgac S	GCTCA S	P CC	CAT M	rgc? L	rgg V	TGT	TCC	GGAC T	CA?	rga <i>i</i> K	AGGAG E	600 200
601 201	. T?	ACA( S	GCG2 D	ATG E	AGG G	GCC <i>I</i> H	ACAA N	. CGʻ	TCAC T	CCGCI A	T TC	etg: V	rca: I	FCA S	GCT Y	ACC P	CATO S	CC.	rca? I	rctgg W	660 220
661 221	L GZ	AAG' V	IGT' F	rca T	CCA N	ACA:	rgct L	r CC	TGA. N	ATGTO V	G V	rgg( G	GCT' F	rcc I	TGC	TGC	CCCI L	GA(	GTGT V	CATC I	720 240
721 241	L AG	CCT F	TCT C	GCA T	CGA	TGC:	AGAT I	CA M	TGC.	AGGTY V	GC: L	rgc( R	GGA. N	ACA 1	A ACG	AGA M	TGC <i>I</i> Q	A GA K	agt:	rcaac K	786 26
78: 26:	l G. l E	AGA I	TCC Q	AGA	CGG	AGA R	GGAG R	G GG A	CCA T	CGGTY V	G C'	Pat V	TCC L	TG(	S TTC J \	TGC L	TGC:	r gc L	TAT F	TCATO I	284 28
84:	1 A	TCT	GCT	GGC	TGC	CCT	TCC	A. GA	TCA	GCAC	C T	TCC	TGG	ATZ	A. CGO	CTGC	ATC	G CC	TCG G	GCATY	2 90 30

#### FIG. 43B

901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG 960 301 L S S C Q D E R I I D V I T Q I A S F M 961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA 1020 321 A Y S N S C L N P L V Y V I V G K R F R 1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG GGGGCTGCAG GTCAGAACCC 1080 341 K K S W E V Y Q G V C Q K G G C R S E P 1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT 1140 361 I Q M E N S M G T L R T S I S V E R Q I 1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG 1200 381 H K L Q D W A G S R Q * 1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT TTTCAGCATG GGCCCAGGAA TGCCAAGGAG 1260 1261 ACATCTATGC ACGACCTTGG GAAATGAGTT GATGTCTCCG GTAAAACACC GGAGACTAAT 1320 1321 TCCTGCCCTG CCCAATTTTG CAGGGAGCAT GGCTGTGAGG ATGGGGTGAA CTCACGCACA 1380 1381 GCCAAGGACT CCAAAATCAC AACAGCATTA CTGTTCTTAT TTGCTGCCAC ACCTGAGCCA 1440 1441 GCCTGCTCCT TCCCAGGAGT GGAGGAGGCC TGGGGGGAGG GAGAGGAGTG ACTGAGCTTC 1500 1501 CCTCCCGTGT GTTCTCCGTC CCTGCCCCAG CAAGACAACT TAGATCTCCA GGAGAACTGC 1560 1561 CATCCAGCTT TGGTGCAATG GCTGAGTGCA CAAGTGAGTT GTTGCCCTGG GTTTCTTTAA 1620 1621 TCTATTCAGC TAGAACTTTG AAGGACAATT TCTTGCATTA ATAAAGGTTA AGCCCTGAGG 1680 1681 GGTCCCTGAT AACAACCTGG AGACCAGGAT TTTATGGCTC CCCTCACTGA TGGACAAGGA 1740 1741 GGTCTGTGCC AAAGAAGAAT CCAATAAGCA CATATTGAGC ACTTGCTGTA TATGCAGTAT 1800 1801 TGAGCACTGT AGGCAAGACC CAAGAAAGAG AAGGAGCCAT CTCCATCTTG AAGGAACTCA 1860 1861 AAGACTCAAG TGGGAACGAC TGGGCACTGC CACCACCAGA AAGCTGTTCG ACGAGACGGT 1920 1921 CGAGCAGGGT GCTGTGGGTG ATATGGACAG CAGAAGGGGG AGACCAAGGT TCCAGCTCAA 1980 1981 CCAATAACTA TTGCACAACC ACCTGTCCCT GCCTCAGTTC CCTTTTATGT AACATGAAGT 2040

#### FIG. 43C

2041 CGTTGTGAGG GTTAAAGGCA GTAACAGGTA TAAAGTACTT AGAAAAGCAA AGGGTGCTAC 2100 2101 GTACATGTGA GGCATCATTA CGCAGACGTA ACTGGGATAT GTTTACTATA AGGAAAAGAC 2160 2161 ACTGAGGTCT AGAAATAGCT CCGTGGAGCA GAATCAGTAT TGGGAGCCGG TGGCGGTGTG 2220 2221 AAGCACCAGT GTCTGGCACA CAGTAGGTGC TCATTGGCTC CCTTCCACCT GTCATTCCCA 2280 2281 CCACCCTGAG GCCCCAACCG CCACACACA AGGAGCATTT GGAGAGAAGG CCATGTCTTC 2340 2341 AAAGTCTGAT TTGTGATGAG GCAGAGGAAG ATATTTCTAA TCGGTCTTGC CCAGAGGATC 2400 2401 ACAGTGCTGA GACCCCCCAC CACCAGCCGG TACCTGGGAA GGGGGAGAGT GCAGGCCTGC 2460 2461 TCAGGGACTG TTCCTGTCTC AGCAACCAAG GGATTGTTCC TGTCAATCAA TGGTTTATTG 2520 2521 GAAGGTGGCC CAGTATGAGC CCTAGAAGAG TGTGAAAAGG AATGGCAATG GTGTTCACCA 2580 2581 TCGGCAGTGC CAGGGCAGCA CTCATTCACT TGATAAATGA ATATTTATTA GCTGGTTGGA 2640 2641 GAGCTAGAAC CTGGAGAGCT AGAACCTGGA GAACTAGAAC CTGGAGGGCT AGAACCTGGA 2700 2701 GAGGCTAGAA CCAAGAAGGG CTAGAACCTG GAGGGGCTAG AACCTAGAGA AGCTAAAACC 2760 2761 TGAGCTAGAA GCTGGAGGAC TAGAACCTGG AGGGCTGGAA TCTGAAGGGC TAGAACCTGG 2820 2821 AGGGCTGGAA TCTGGAGAGC TAGAACCTGG AGGGCTAGAA CCTGGAGGGC TAGAACCTAG 2880 2881 AAGGGCTAGA ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG 2940 2941 GAGGGCTAGA ACCTAGAAGG GCTAGAACCT GGAGGGCTAG AACCTGGCAG GTTAGAACCT 3000 3001 AGAAGGGCTA GAACCTGGAG AGCCAGAACC TGGAGGGCTA GAACCTGGAA GGGCTAGAAC 3060 3061 CTGTAGAGCT AGAACATGGA GAGCTAGAAC CCGGCAGGCT AGAACCTGGC AAGCTAGAAC 3120 3121 CTGGAGGGAA TGAACCTGGA GGGCTAGAAC CTGGAGAATG AGAAAAATTT ACATGGCAAA 3180 3181 GAGCCCATAA ATCCTGACCA ATCCAACTCT GAATTTTAAA GCAAAAGCGT GAAAAAAAAG 3240

#### FIG. 43D

3241 ATTCCCTCT TACCCCCAAC CCACTCTTT TTCCCACCAC CCACTCTCT CTGCCTCAGT 3300

3301 AAGTATCTGG AGGAAGAAAA CAGGTGAAAG AAGAAGTAAA AACCATTTAG TATTAGTATT 3360

3361 AGAATGAAGT CAAACTGTGC CACACATGGT GAATGAAAAA AAAAAAAAAG AGGCTGTGTT 3420

3421 TTGTCACACA GGGCAGTCAT TCAGCACCAG AGCACGTGAT GGTCTGAGAC TCTCTTAGGA 3480

3481 GCAGAGCTCT GCCGCAATGG CCATGTGGGG ATCCACACCT GGTCTGAGGG GCAACTGAGT 3540

3541 CTGCGGGAGA AGAGCGGCCC TATGCATGGT GTAGATGCCC TGATAAAGAA CATCTGTCCT 3600

3601 GTGAAAGACT CAATGAGCTG TTATGTTGTA AACAGGAAGC ATTTCACATC CAAACGAGAA 3660

3661 AATCATGTAA ACATGTGTCT TTTCTGTAGA GCATAATAAA TGGATGAGGT TTTTGCAAAA 3720

3721 AAAAAAAAAA AAA 3733

## FIG. 44A

_								OEO	cmc	· _ m_	·		<u>يس ک</u> د	raaz	• አርጥን	ургод и	360	CT	rrci	CAT	GGC	$\epsilon$	50
				TAT.	reg.	HCI	MC	t IG	T 10	T.	T.	T.	V	G	Τ.	T.	A	L	S	Н	G	2	20
1	M	H	L	_	ט	1		ם	'n	u	ם	_	•	•	_	_		_	_				•
61	CAC	<u>ን</u> ርጥ	GCZ	ACG	ГТG	AGO	CAT	'GA'I	'GG	rga(	GAG'	TTG	CAG	TAA	CAG	CTC	CCA	CCA	GCA	GATT	CTG		120
21	0	τ.	H	v	E	F	Ħ	D	G	E	S	С	S	N	S	S	H	Q	Q	I	L	•	40
	×	_		•																			
																					•		
21	GA	GAC	AG	STG	AGG	GC'	rcc	ccc	CAG	CCT	CAA	GAT.	AGC	CCC'	TGC	CAA	TGC	TGA	CTT	rgc	CTTC		180
41	E	т	G	E	G	:	S	P	S	L	K	I	Α	P	A	N	A	D	F'	A	F	ı	60
		3													•			•					- 40 h
181	CG	CTI	CT.	ACT	ACC	TG.	ATC	GC:	rtc	GGA	GAC	CCC	GGG	GAA	GAA	CAT	'CTT	TTT	CTC	CCC	GCTC	3	240
61	R	F	Y	Y	I	. :	I	A	S	E	${f T}$	P	G	K	N	I	F	F	S	P	L		80
				•								•			•					~~~	003		300
241	AG	CAT	CT	CGG	CGG	3CC	TAC	CGC	CAT	GCT	TTC	CCT	GGG	GGC	CTG	CTC	ACA	CAC	iCCG	CAG	CCA	3	100
81	S	I	S	A	. Z	1	Y	A	M	Ļ	S	L	G	A	С	S	н	S	R	S	Q		100
				•				•				•				~~				mac		·	360
301	ΑT	CC	ľТG	AGG	GCC	CTG	GG	CTT	CAA	CCI	CAC	CGA	'GC'I	'GTC	TGA	igi.	CGA	ATG1	TT	DAL	GGG	_	120
101	I	L	E	G	; I	٠	G	F	N	L	T	E	Ь	S	E	5	ע	٧	n	R	G		120
				•								•	300	2007	·		TYCC:		ጉልሮር	ഹവ	rcc	Ċ	420
361	TI	CC	AGC	ACC	CTC	CTG	CA	CAC	TCT	CAP	ACC.	ויטטנ	بی کارنگر ح	えいして	11G	30C. T.	E TGG	The state of	R	v	G	•	140
121	F	Q	H	I		L	н	T	ь	N	יו	P	G	п	G		-	•		•	G		
																			_				
421						~m~	720	•	C 2 7	۰۰۰	rca:	Дата	ייכרי	ኮጥርረ	י מממי	ΑΑТ	TCC	TGA	ATG	ACAC	CAT	Ġ	480
	AC	3TG	CLC	, 1.C.	rrc.	r C.T.C	DAC C	HUUH T	M M	100. T.	K	ਸ <b>ਹ</b> ਜ਼ ਜ	T.	A	K	F	L	N	D	T	M		160
141	S	Α	1		•	L	3	п	14		10	•	_	••		_	_						
																						•	
481	C	200	ጥርና	ቦ ል ጥ(	GDG	CC	ממק	ACT	יים. יים	TCC.	ACA	CCA	ACT	TCT	ACG.	ACA	CTG	TGG	GCA	CAA!	rcca	\G	540
161	Δ	UU V		7	С21С F.	A	ĸ	L	F	Н	т	N	F	Y	D	Т	v	G	T	I	Q		180
101		•		•	_	••		_	_														
					_																	•	
541	C	מידים	TC	AAC	GAC	CA	CGI	rca.	AGA.	AGG.	AAA	CTC	GAG	GGA	AGA	TTG	TGG	TTA	TGG	TCA	GTG	AG	600
181				N	D	Н	V	K	K	E	T	R	G	K	I	V	r D	L	v	S	E		200
	_																						
									•										•			•	
601	С	TCA	AG	AAG	GAC	GT	CTT	rga'	TGG	TGC	TGG	TGA	<b>PTA</b>	'ACA	TTT	'ACI	TCA	AAG	CCC	TGT	GGG	AG	660
201	L	F	(	ĸ	D	v	L	M	V	L	. v	N	Y	I	Y	F	F	A	L	W	E		220
												•							•			•	
661	A	AAC	CA	TTC	'ATI	CTC	CT	CAA	GGA	CCA	CTC	CCA	AAC	ACT	TCI	YTA:	STTC	ATC	AGA	ACA	CAA	CA	720
221	K	. 1	?	F	I	S	S	R	T	T	, E	) k	I	) F	Y	7	<i>7</i> I	) E	2 1	T	T		240
					•				•			•				•			•		~~~	•	700
721	. 0	TC	CGG	GTO	CCC	CAT	'GA'	TGC	TGC	AGG	ACC	CAGO	AGG	CATC	CAC	rgg:	YTAT	CTTC	CATC	ACA	GAT	AC	780
241		7	R	V	P	M	M	L	, ¢	) [	9	) I	E 1	I I	ı V	N :	Y ]	H با	1 I	, F	t Y	•	260
					•				•									-m	•	DED C 3	. mm~	·mC	840
781	. 1	rtg	CCC	TG	CTC	GGI	rgc	TAC	:GGI	ATGO	GAT'	rac:	AAA(	GGA(	JAC(	JCA.	ACC	'ک'۱'ی		1 T C F	I L	TC	280
261	I		P	С	S	V	L	. 17	1 1	4 I	)	Y I	Κ (	3 I	נ כו	A. '	Τ,	<b>V</b>	r )	. 1		•	201

### FIG. 44B

841	CC	TAA	CCA	AGG	CAA	AAT	GAG	GGA	GAT	TGA	AGA	GGT	TCT	GAC	TCC	AGA	GAT	GCT	AAT	GAGG	900
281	P	N	Q	G	K	M	R	E	I	E	E	V	L	T	P	E	M	L	M	R	300
901	тC	CAA	CAA	ריזיירי	ረጥጥ የ	cca	GAA	GAG	GAA	ттт	· TTA	CAA	GAA	GCT	'AGA	GTI	GCA	TCT	TCC	CAAG	960
301		N		L	L	R	ĸ	R	N	F	Y	K	K	L	E	L	H	L	P	K	320
							-														
961	TT	CTC	CAT	TTC	TGG	CTC	CTA	TGT	TTA'	'AGA	TCA	GAT	TTT	GCC	CAG	GCI	'GGC	CTI	CAC	GGAT	1020
321	F	s	I	S	G	S	Y	V	L	D	Q	I	L	P	R	L	G	F	T	D	340
1021	CT	ann	יריתר	ממחי	CTC	יככר	מישי	ריים.	יאיתר	ירכני	"C D T	ייראר	ממיי		\GC2	AAZ	ACT	IGGZ	\GGC	ATCC	1080
341		F	S	K	W	A	D	L	s	G	I	Т	K	0	0	ĸ	L	E	A	S	360
341		•	5		••	A				Ū		•	••		×	••	_				
1081	AA	AAG	TTT	CCA	CAZ	\GGC	CAC	CTI	'GGA	\CG1	GG	ATGA	\GGC	TGG	CAC	CGZ	\GG(	TGC	CAGO	CAGCC	1140
361	K	s	F	н	K	A	T	L	D	V	D	E	A	G	T	E	A	A	A	A	380
1141	AC	<b>G</b> AC	GTI	rcgo	GAT	CAZ	LTA	CTT	CTC	TGC	CCC	AGAC	CAZ	ATC	GC.	CAT	rcci	IGC(	SATT	CAAC	1200
381	Т	T	F	A	I	K	F	F	S	A	Q	T	N	R	Н	I	L	R	F	N	400
											•										1000
1201	CG	GCC	CTT	rcc:	rtg:	rgg:	rga'i	CTI	CTTC	CCAC		GCA(	CCC							GCAAG	1260
401	R	P	F	L	V	V	I	F	S	Т	s	Т	Q	s	V	L	F	L	G	K	420
1261	GT	CGI	rcgi	ACC	CA	CGA	AAC	CAT <i>i</i>	4G	128	34										
421	37	3.7	ח	D	T	K	Ð	*		42	R										

## FIG. 45A

1	ATC	GCA'	rct'	· PAT	CGA	CTAC	CTC	CTC	CTC	CTC	SCTO	GT:	rgg <i>i</i>	CT	ACTO	GCC	CTT	rTCI	CAT	rGGC	60
1			L		D															G	20
				•			•				•			•			•				100
																				CTG	120 40
21	Q	L	Н	V	E	н	D	G	E	S	C	S	N	S	S	н	Q	Q	I	L	40
121	C2.	~~~	3.00	mc x	CCC	OMO/		~ N C (	CCT	ממרי	• 2 አጥ:	A C C (	ددد	TYC-(	יממר	זיכי	מבות	بالملد	זיכר	CTTC	180
41	E				G																60
#T	E	1	G	E	G	3	-	3		•	_	**	•	••		••	-	-	••	-	
				_																	
181	CG	CTT	СТА	CTA	CCT	GAT	CGC'	TTC	GGA	GAC	CCC	GGG	GAA	GAA	CAT	CTT'	TTT	CTC	ccc	GCTG	240
61					L													S			80
											•			•			•			•	
241																				CCAG	300
81	S	I	S	Α	A	Y	Α	M	L	S	L	G	A	С	S	H	S	R	S	Q	100
				•				~	m	~~~			ama.	maa	<b>с</b> тс	~~»	mam	~~»	mac	cccc	360
					CCT L															GGGC G	120
101	Ţ	Ъ	E	G	L	G	F.	N	Ъ	T	E	ъ	5	£	5	ע	V	п	K	G	120
361	фф	CC	CCA		יררית	יכרא	CAC	ጥርጥ	בבי	ССТ		rccc	CCA	ТСС	GCT	GGA	AAC	AТG	CGT	GGGC	420
121					L																140
	•	~	**	_	_	••	•	_		_	_	_		_			_	_		-	
421	AG	TGC	TCT	GTI	rcci	'GAG	CCA	CAA	CCT	'GAA	GTT	CCI	TGC	AAA	ATT	CCT	GAA	TGA	CAC	CATG	480
141	s	Α	L	F	L	S	H	N	L	K	F	L	A	K	F	L	N	D	T	M	160
				•							•			•							540
	GC	CGI	CTA	TG#	AGGC	TAA	ACI	CTI	CCA	CAC	CAA	CTI	CTA	CGA	CAC	TGT	GGG	CAC	:AA'I	CCAG	5 <b>4</b> 0 180
161	A	V	Y	E	A	K	L	F.	н	T.	N	F.	¥	ע	Т	V	G	T		Q	180
5/1	CI	יתי אַ רי	י א מים		٨٥٥	CCT	ממיי	.C.D.D	CCZ	A A C	• ነጥርር	:AGC	GAD	GAI	ግርባ	GGA	hth.	GGI	CAG	TGAG	600
181	T.	T.	M	D 2007	H	V	K.	K	E.	TT.	R	G	K	T	v	מ	L	v	S	E	200
101		_	14	ט	**	•		•	_	•		•		_	·	_	_	·	_	_	
				_																	
601	CI	CAZ	AGAZ	AGG	ACG?	CTT	'GA'	rgg:	rgci	rggi	rga.	TT	CAT	TT	CTT	CAZ	AAGO	CCI	GTG	GGAG	660
201					v																220
											•			•						•	
661	A.	AAC	CAT'	rca'	TTT	CCT	CAAC	GA(	CCAC	CTC	CA	\AG	ACTI	CT	ATG:	ľTGĮ	\TG!	\GA.	CAC	CAACA	720
221	K	P	F	I	S	S	R	T	T	P	K	D	F	Y	V	D	E	N	T	${f T}$	240
				•				•			•			•				•		•	
721	G.	rcc	GGG'	rgc	CCA'	rga'	rgc'	rgcz	AGG/	ACC	AGGZ	AGC	ATC	ACTO	GGT2	ATC:	rtcz	ATG	ACAG	GATAC	780
241	V	R	V	P	M	M	L	Q	D	Q	E	H	H	W	Y	L	H	D	R	Y	260
													,								
<b>-</b>	_					ma-a-			mc~	y (LP.1.		A A ~	~ > ~ ·		~ ~ ~ ~	~~~	TC TC	• <del>സസ</del> സ	יאיטו	, 1	840
781	T'.	r.GC	CCT	GCT ~	CGG	T.C.C.	TAC	'Aئ س	たらられ	7. 1.1.1.4	HCA.	nag n	NDAE 7	としてい	AA) m		E. T.O.T.	љ. т.т.т.	T.	PTCTC L	280
201	L	P	C	S	V	ىد	ĸ	M	v	I	v	G	ע	A	Τ.	V	E	Ľ	_		200

### FIG. 45B

				•			•				•			•			•			•	
841	CC	TAA	CCA	AGG	CAA	AAT	GAG	GGA	GAT	тgа	AGA	GGT	TCT	GAC	TCC	AGA	GAT	GCT	TAA	GAGG	900
281	P	N	Q	G	K	M	R	E	I	E	E	V	L	T	P	E	M	L	M	R	300
901	mc.	ר גיי	~ ~ ~		v~mr	vece	ממסי	CNC	יר א <i>י</i>	. നഹന	• •	. ר א	ת תים		מ בי מי	വസ	YCC N	<b>π</b> ∕π	ጥሮር	CAAG	960
301	W	N	N	L	L	R	к.	R	N	F	Y	K	K	L	E	L	н.	L	P	к .	320
961	ТТ	CTC	CAT	TTC	TGG	CTC	CTA	TGI	'ATI	'AGA	TCA	GAT	TTI	GCC	CAG	GCI	'GGG	CTI	CAC	GGAT	1020
321	F	S	I	s	G	S	Y	v	L	D	Q	I	L	P	R	L	G	F	T	D	340
L021	CI	GTI	CTC	CAA	GTG	GGC	TGA	CTI	'ATC	CGG	CAI	CAC	CAA	LACA	.GCA	AAA	ACI	'GGA	.GGC	ATCC	1080
341	L	F	s	ĸ	W	A	D	L	s	G	I	T	K	Q	Q	K	L	E	A	S	360
L081	AA	AAG	TT	CCZ	CAA	AGGC	CAC	CTT	'GG#	CGI	'GGA	\TG#	.GGC	TGC	CAC	CGF	LGGC	TGC	AGC	AGCC	1140
361	K	S	F	Н	K	A	T	L	D	V	D	E	A	G	T	E	A	A	A	A	380
																			. » ma		1000
1141																				CAAC	1200
381	т	т	F	A	I	K	F	F	S	A	Q	Т	N	R	H	I	L	R	F	N	400
1201	CG	GCC	CT	rcci	rtgi	rgg:	I'GA'I	rcth	(TT)	CAC	CAC	GCAC	CCZ	AGAC	TG	נככי	CTT	LTC1	rgge	CAAG	1260
401	R	P	F	L	v	V	Ι	F	s	Т	S	T	Q	S	V	L	F	L	G	K	420
1261	GI	rcgi	rcgi	ACC	CCAC	CGA	AAC	CATI	AG	128	34										
421	7.7	7.7	-		m	75				420	•										

### FIG. 46A

1	CACC	CT	ATC	C 7	racac	TAC	TA	GGAA	CTI	GCA	CAG	TCC	:GCC	· T	CGGGC	AGC	ccc	AAAG	CTC	CTC	60
61	TGCC	CA	ccc	T (	GGCT	CCA	LAA	ACCC	CTCC	CAAA	ACA	AAA	GAC	C	AGAA?	\AG(	CAC	TCTC	CAC	CCA	120
121	GCAC	GC.	AAA	.c (	GCCT	CTI	CT	TGAC	CGC	CAGC	ccc	CAC	CCI	· C	TGTCT	rge:	rcg	AGCC	CAG	GAA	180
181	AGG	CT	GAA	G	GAACI	AGGC	CCG	GGGI	AAG	GAGC	CCI	rcco	CTCI	·	TCCC:	rtg:	ICC	CTCC	CATC	CAC	240
241 1	CCA	3CG	ccc	eg	CATC'	rgg <i>i</i>	AGA	CCC	TAT M	GGCC A	CGC R	GC! A	гсас н	CT W	GGGGG G	CTG C	CTG C	CCC	CTGC W	ECTG L	300 12
301 13	GTC:	CTC L	CTC L	T C	GTGC' A	TTG:	IGC A	CTG( W	GGG G	CCAC H	ACZ T	AAA( K	GCCI P	AC L	TGGA D	CCT L	TGG G	AGG(	GCAC Q	GAT D	360 32
	GTG. V					CAC( T	CAA N	CCC	CCC P	TTAC Y	CT:	P	AGT: V	TA	CTGT V	ggt V	caa N	TAC T	CAC T	AATG M	420 52
421 53	TCA S	CTC L	AC T	AG A	CCCT L	CCG R	CCA Q	GCA Q	GAT M	GCAG Q	AC T	CCA Q	gaa' N	TC L	TCTC S	AGC A	CTA Y	CAT	CAT I	CCCA P	480 72
481 73	GGC G	AC# T	AGA' D	TG A	CTCA H	CAT M	gaa N	CGA E	GTA Y	CATC I	GG G	CCA Q	ACA' H	TG D	ACGA E	.GAG R	GCG R	TGC A	GTG W	GATT I	540 92
541 93	ACA T	G GGG	CTT F	TA T	CAGG G	GTC S	TGC A	AGG G	AAC T	TGCA A	GT V	GGT V	GAC T	TA M	TGAA K	GAJ K	LAGC A	AGC A	TGT V	CTGG W	600 112
	ACC		CAG S	TC R	GCT#	W W	GAC T	TC#	A	TGAG E	CG R	GCA Q	TAAL M	GG D	ACTO C	LATE N	ATTG W	GG# E	L GCT	CCAT H	660 132
	. AAC						TCC P			CACO T			CCI L		CCGI		TCC P		TGG G		720 152
721 153	CG	rgt V	GGG G	TT F	TTG!	ACC(	CCTT F	CCT	rct: L	rgtco s	I	TG# D	ACAC T	CT W	GGG2	AGA( S	TT# Y	TGI	ATCI L	NGGCC A	780 172
781 173	CTC	CCA Q	AGC G	SCT S	CTA:	ACA( R	BACA Q	GC'	rgg' V	TGTC(	C AT	CAC T	CAAC T	CCA N	ATC!	rtg V	rgg <i>i</i> D	A CC: L	rgg7 V	PATGG W	840 192
84: 19:	1 GG. 3 G	ATC S	AG# E	AGA R	. GGC	CAC(	CGG1 V	TC	CAA N	ATCA: Q	A C P	CCA'	TTTI Y	ATG	CCC	TGC Q	AGG:	A GG A	CAT?	TCACA T	900
90:	1 GG	GAG	CAC	CTT	GGC	AGG.	AGAJ	A AG	TAT	CTGG	C G'	r P	GAA(	GCC	AGA	TGC	AGA. K	A GC H	ATC:	AAAAC K	3 96 23

# FIG. 46B

961	GT	CCC	GAC	TG	CCGT	CCT	TCT	GTC	GGC	GCTT	GA	GGA	GAC	GG	CCTG	GCT	CTT	CAA	CCT	TCGA	1020
233	V	P	T	A	v	L	L	S	A	L	E	E	T	A	W	L	F	N	L	R	252
																				•	
1021																					1080
253	A	s	D	I	P	Y	N	P	F	F	Y	S	Y	T	L	L	T	D	S	S	272
1001				·										•						<b>:</b>	
1081																					-
273	+	R	1	r	A	N	K	S	R	F.	S	S	E	т	L	S	Y	Ţ	N	S	292
1141	AG	TTG	CAC	AG	GCCC	CAT	GTG	TGT	GCA	AATC	GA	GGA	TTA	CA	GCCA	АСТ	TCG	TGA	CAG	CATIC	1200
293	S	С	T	G	P	M	С	v	0	I	E	D	Y	S	0	v	R	D	s	I	312
															-			_		_	
1201																					
313	Q	A	Y	S	L	G	D	V	R	I	W	I	G	T	S	Y	T	M	Y	G	332
1261	AT	CTA	TGA	ĀĀ	TGAT	'ACC	AAG	GGA	GAA	ACTC	GT	GAC	AGA	CA	CCTA	CTC	CCC	AGT	GAT	GATG	1320
333	I	Y	E	M	I	P	R	E	K	L	v	T	D	T	Y	s	P	V	M	M	352
1321	AC	CAA	GGC	'AG	тсал	CAD	CAG	CAA	ഹാ	GCAG	GC.	ССТ	_ር ርጥ	«Դ	ACCC	CAC		CGT	ccc	CCAC	1380
															A						
				-			_		_	-		_	_	-				•			
1381	GC	TGT	GGC	TG:	TGAT	cco	GTA	CTT	GT	CTGG	СТ	GGA	GAA	GA	ACGI	SCC	CAA	AGG	CAC	AGTG	1440
															v						392
1441	GΔ	ጥርል	വഹ	ىلملم •	CCCC	יככר	מסמי	СУТ	<b>УССТ</b>	אבמאר	2 2	Стт	ccc		GAGA	מסמ		CTUT	~~~	·	1500
															E						
												_		. •	_		*	•		-	
1501	GG	ACC	CAG	TT	TTG	LAAC	CAT	CTC	TGC	TAGT	GG	TTT	GAA	TG	CTGC	CCI	YGGC	CCA	CTA	CAGC	1560
															A						
1561	CC	GAC	CAZ	AGG	AGCT	GAZ	ACCG	CAA	GCT	GTCC	TС	AGA	TGA	GA.	TGTA	CCT	ም የታርጥ	CCA	СТС	TYCCC	1620
															Y						
											_	_	_		_	_	_		_	•	
1621	~		CM 7		0007			C3.C			30	<b>~</b> ~ ~			TCCA	Omc		~~~			1.000
															H						
433	G	¥	•	**	ם	G	•	•	ט	_	•	K	•	V	n	**	G	1	•	3	4/2
1681	GC.	لملت	TC I		AGG	יככנ	מידמי	ጥልር	יככנ	יייכיייכי	CT	СУД	יאככ	44:	ATAT	wiya z		GTYC	CAG	2011/0	1740
															I						
		_	**		_		-	•		•	_	-	-	-7	-	_	-	5	-*	_	
1741	ъm	V-uvr	MT/~	•	CMC.	י א ווווי	מחתר	300	2000	יעח ה הי		~~		·~	TTGC			300	<b></b>	·	1000
															TIGC A						
	•	4	E		A	•	3	G		**	•	2	^	F	^	~	Α.	A		**	J14
1801	GA	TGC	TG	GTC	TCA	TT	ATGG	TCZ	TGG	GACA	GG	CCA	CGG	CA	TTGG	CAZ	ىلىنلى	ССч	YCTY:	TGTC	1860
															G						

### FIG. 46C

1861 533			etg W	GC P		G G			GTC S		AA( N			ra M		CAA( K		CAT M	GTT F	CACT	1920 552
1921 553					CTG(					TGGA G					TCCG R				TGT V	GGCT A	1980 572
1981 573						CAAA K		CAA K				GGA E		AC P					ATC S	ATTT F	2040 592
2041 593						GGAA N		CAT	CGA D	ATGTC V	AG S	CCT L	GCT L	GT S	CTCC P	NGA E	GCA H	TCI L	CCA Q	GTAC Y	2100 612
2101 613						ACC#		CAT	CCG R	EGGAG	AA K	GGT V	GGG G	TC P	CAGA E	GCT L	GCA Q	GAC R	GCG R	CCAG Q	2160 632
2161 633							AGTG W			NACAG Q	CA H	CAC T	AGA E	GC P	CCCI	'GGC A	CGC A	CAC R	GGGC A	CCCA P	2220 652
2221 653						GGG(				Pagtg V	GT V	CTC S	CAC T	CCC L	TTG(	CAT I	CCT L	TG(	SCTC W	GGAGT S	2280 672
2281 673			\GA(	GGC	TCC	AGA	CTCI	CCI	rgt'	FAACC	CI	CCZ	ATC?	Pag	ATG	GGG	SGCT	CC	CTT	GCTTA	2340 673
2341	GC	TCC	ccc	TCA	ccc	TGC.	ACTO	AA(	CAT	ACCCC	: AF	AGAC	<b>SCC</b> (	CCT	GCT	GGC	CCAT	TG	CCT	AGAAA	2400
2401	. cc	TT	rgc.	ATT	CAT	CCT	CCTI	CT	CCA	AGACC	T	ATGO	GAG	AAG	GTC	CCA	GGCC	CC	AGG.	AAACA	2460
2461	. C2	AGG	3CT	TCI	TGC	CCC	CAG	TG	GCA	CCTCC	C C	rgc	ACC	CCG	GGG'	TTG'	TAT	A CC	ACA	CCCTG	2520
2521	. G(	GCC(	CCT	Laa	CCC	CAGG	ccc	C GA	AAT	AGGAZ	A AG	GCC.	AGC'	TAC	TCT	CTT	CTCI	r tc	TGT	GATCI	2580
2581	l Ci	AGT	AGG	cci	T AAC	CCTA	TAAC	C CT	AAC	ACAG	A C	rgc'	TAC	AGC	TGC	TCC	CCT	c cc	GCC	AAACA	2640
264	L A	AGC	ccc	'AAC	G AA	AACA	ATG	c cc	CTA	CCAC	c c	AAG	GGT	GCC	C ATG	GTC	CCG	G GA	AAA.	CCCA?	2700
270:	1 C	CTG	TCA	CCC	G CG	IGTI	rece	C GI	'AAC	CAGA	A. C	TGT	TCC	CCC	C CCA	.CCA	.GGG	C TI	AAA'	AATC	2760
276	1 C	ccc	CAC	TT.	r tt.	AACO	CATC	G TC	CAT	TAAC	C A	CCT	GGT	GG	G CAT	AGC	CAG.	AGC	TGI	TCGA	A 2820
282	1 C	CCĀ	.GCC	CAG	G GA	TGAJ	AAAA	T C#	ACC	cccg	A C	ATG	GAA	'CC	C ATG	ATI	CCT	A A?	ACCC	:GGGG:	r 288
200		^~	vno-	3 R (F)		3 3 C	ת גמו	N CC	יסמי	A CCC A	G T	ጥልአ	.מרר	יתמי	A GC2	እ <b>ጥ</b> ባ	عري	С ТҮ	<b>ን</b> ጥረ	LACTA:	A 294

#### FIG. 46D

2941 GAGGGAATGC GGTGAGGCAG TGTGGAATAT GACCCTACCA GAGGTTGGAG AACAAACTTG 3000
3001 GGCAGCCGGA ACCCGTCACT ATTTTAGATT CCTGGCATTC GAGGAGCCCT TTGAACTTTC 3060
3061 CAAAGTGCAG CCACAGCTAC AATGCTGTTA AATCCTCCCA CATTTCTTGG ATGCCCCTTC 3120
3121 ACCTTGTGTG GACAGTGTCT GGTTTCCCCA TTTTACAGAC AGGAAAACTG AGCTTCAGAC 3180
3181 AGGGGGTGGG CTTTGCCTAA GGACACACAA ATTTGGTTGG GAGTTGATGG GGCCAGATGA 3240
3241 GCCAGCATTC CAGCTGTTTC ACCCTTCAGC AACATGCAGA GTCCCTGAGC CCACCTCCCA 3300
3301 GCCCTCTCCT CATTCTCTGA ACCCACTGTG GTGAGAAGAA TTTGCTCCGG CCAAATTGGC 3360
3361 CGTTAGCCAC CTGGGTCCAC ATCCTGCTAA GACGTTTAAA ACAGCCTAAC AAAGACACTT 3420



#### Table III

Gene Name	Coriell DNA Panel(s)	Amplicon No. Total SNPs Missense	Total SNPs	Missense	Silent	UTR	Intronic
Aminopeptidase P (XPNPEP2)	24 + 47 (55AA) +12pt	24	30	0	8	7	24
Bradykinin B1 receptor (BDKRB1)	24+ 95 (8AA, 103 CAU) +12pt	7	4	2	2	ო	4
Bradykinin B2 receptor (BDKRB2)	24 (8AA) +12pt	12	36	က	2	4	17
NK1 tachykinin receptor (TACR1)	24 (8AA) +12pt	7	6	0	က	က	က
C1 esterase inhibitor (C1NH)	24 (8AA) +12pt	10	9	2	2	0	2
Kallikrein 1 (KLK1)	7 (7AA) +12pt	2	9	-	-	8	8
Protease Inhibitor 4 (PI4)	7 (7AA) +12pt	ω	12	Υ-	က	_	7
Angiotensin Converting Enzyme 2 (ACE2) 7 (7AA)	?) 7 (7AA) +12pt	20	6	0	0	0	6
Totals:			122	6	18	30	99

# Table IV (1 of 2)

CDNA_SEO_POS																								8	8												2002	2117	752	3604	3696	3456	2865			35	672			1635	1538	1344			1278	121	83	1496	8		\$				2	3	Lis I	g		•	T		T	553	1081	1558
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# Table IV (2 of 2)

GENE_DESCRIPTION	HGMC ID	OH- INS	HGNC_ID SNP_ID CONTIG_NUM CONTIG_POS	SONTING POS	FLANK SEG (REF / ALT)	FLANK SEQ REF (SEQ ID NO:	FLANK SEQ REF (SEQ ID NO: 1) FLANK SEQ ALT (SEO ID NO: 1) REF SEQ ID REF SEQ POSTBEF NTALT NO	TREE SEO ID	REF SEO POS	BEE NTA	I T NT EXON	INSTITUTOR TYPE DEVICTION DES CONTRA ST.T. CONTRACTOR SEC. IN.	SCACOARD DE	CE COOME	1	O CO OSO	SALA GEO BOS
Brachtonin Receptor B2	BOKRB2	AE104s27	+	1826	Аматавам јел ваставаса	285	624	AL355102.2	9/629	9	A Exon3		-		Ž	0006231	1,877
Brachkinin Receptor 82	BOKAB2	BDKRB2 AF 104s28	•	2102	TGAGGCATC [AT] TTACGCAGA	256	S	AL355102.2	62738	ŀ	A Exon3	L	-	l	2	U COOCO I	2117
Brachtenin Receptor B2	읾		•	2239	ABBIT TABLE TO TRACTICOCT	38	829	AL365102.2	10929	<	G Exon3	Mon-CDS	-		2	NIV DODGEST	2
Angotensh Converting Enzyme 2	ACE2	AE109e1	7	55	TOAAAAA [C/A] CACATOGCC	38	627	AC003669.1	68127	o	A Introd	L	-	ŀ			
Angiotensin Converting Enzyme 2	ACE2	AE109s2	10	37	ATCATAGAT [ANG] TAMATATAT	985	629	AC003669.1	69795	S	T Intron 12	L	-		t	İ	I
Angiotensin Converting Enzyme 2	ACE2	AE10983	9	290	ABITIBACAA [CAG] TITICACACC	1059	829	AC003669.1	60542	o	D Intron13	L	-	l		l	
Angiotensin Converting Enzyme 2	ACE2	AE100s4	=	282	Аттавтавс јелу тасстват	865	630	AC003669.1	90164	o	T	L	-		l	ŀ	Ī
Anglotensin Converting Enzyme 2	ACE2	AE10985	=	440	GAATGCTAA [T/C] ATAAAGATA	288	631	AC003669.1	22208	Ŀ	C Intron2	L	-			l	
Angiotensin Converting Enzyme 2	ACE2	AE109s6	15	8	AGAATAATG [C/T] TTGGCACAC	009	age .	AC003669.1	64113	o	Г	L	-				
Angiotensin Converting Enzyme 2	ACE2	AE109s7	15	241	ATCAGACAC (AG) TITITAGGT	100	633	AC003669.1	64245	<	G Exon16	L	-	Į₩.	AAC	AF241254 1	2173
Protesse inhibitor 4	74	AE110s1	2	447		209	634	1.28101.1	6653	-	Т	Mon-CDS			Τ		
Protesse Inhibitor 4	74	AE11062	2	628	CAAAGACTT (C/T) TATGTTGAT	600	838	1,28101.1	25.24	٥	Г	Ties.	•	TC.	E	NM 006215.1	98
Protesse inhibitor 4	7	AE11083	c	166	GAGTTAGA [AVG] CATTAG	706	909	1,10182	7821	Ŀ	C Intront	ľ			Γ	-	
Protesse Inhibitor 4	ž	AE110e4	6	500	LJO	909	637	1,10182	77.80	-	A Intron2	L		-			
Proteese Inhibitor 4	PA	AE110s5	•	563	CITGAGCTC [ANG] CTGACCAAATC	909	636	1,28101.1	3797	-	C Eron1	Slent		¥6T	AGC	NM CORDIS 1	707
Protesse Inhibitor 4		AE110e6	+	1626		607	639	1,10182	21.22	<	T SPank	L			T		
Protease Inhibitor 4		AE11067	7	1665	TCCACAAC [AC] TCTGTGGAG	908	640	1,10182	5882	-	G S'Flank		•				
Protease Inhibitor 4		AE11088	7	1816	ccasagite froj gegeatas	809	170	1,191.1	254	<	G SFlerik	L					
Protesse Inhibitor 4	ž	AE110s9	7	2020	таттатт рос аттаттат	610	249	1,28101.1	2340	٥	Т	L		ŀ		-	
Aminopepticase P (membrane-bound)	XPNPEP2 AE 100s24	AE100s24	•	383	GAGCCGGGT[AGJAGGTCTGGT	898	788	AL023653.1	69644	0	Т	L			l	ŀ	
Aminopepitase P (membrane-bound)	XPNPEP2 AE100425	AE100825	13	63	астлавовстистельсти	828	885	AL023653.1	70696	0	A Intron13	L					
Aminopeptidase P (membrane-bound)	XPNPEP2 AE100426	AE100s26	13		AACAGGATGTTCJCCCAACAGG	008	88	AL023653.1	70620	0	A Intron 13	Mon-CDS		ŀ			
Aminopeptidase P (membrane-bound)	XPNPEP2 AE100427	AE100s27	18	112	TocaddadqTicgaaTgocaA	188	687	AL023653.1	65621	o	T Indian?	L			l		
Aminopeptidase P (membrane-bound)	XPNPEP2 AE100428	AE100828	21		CATGGTCCC(AG)GGAGAGCCC	298	888	AL023653.1	84067		A Exore!	Non-CDS		$\dagger$	9	1,1007204.1	2000
Aminopeptidase P (membrane-bound)	XPNPEP2 AE100s29	AE100s29	2,		cctattaaalc/tjAtAacca	963	898	AL023653.1	62129	٥	T Exor21	Non-CDS			2	1 764,067	į.
Aminopeptidase P (membrane-bound)	XPNPEP2 AE100830	AE100830	g		CCCTCCAGGAAGGAATCTCG	964	000	AL023853.1	61848	-	CExons	Shert		158	Г	U90724.1	111
Brachkthin Receptor B1		AE103s10	,		ACAAGGTGCJAAGJGGGGCCGCA	986	100	U48231.1	1979	0	A Exon3	Masense	-	000	CAG	NM 000710 1	Š
Bradykinin Receptor B1		AE103911	7		GTGGGCCCTG/AJTATAATCAC	996	8852	U48231.1	2504	<	G Exon3	MON-CDS		-	Т		
Bradytinin Receptor B1		AE103s12	1		CTCAAGGGGTAGCAAGTGATC	2967	888	U48231.1	3005	-	G Exon3	Non-COS	۰			l	
Bracytchin Receptor B1	BOK981	AE103s13	7	1946	ACAAGTATC(AGGGGTAATGGC	58	769	U48231.1	3163	0	A Exon3	Non-CDS					
Brach/drinh Receptor B1	BOKRB1 AE103614	AE103s14	,	П	CCTCTCTTATACITACACITICC	990	989	U48231.1	3181	-	Т	Kon-CDS	-	ŀ		ŀ	
Braidykinin Heceptor B2	BOKRB2 AF104s30	AE104s30	~	1	GTTGTGAGGGA/AJTTAAAGGCA	670	969	AL365102.2	62804	0	T Exon3	SCO-USA	-		ž	000623.1	188
Bradykuni Heceptor B2	BOKRB2 AE10483	AE104s31	-	1	GOCACGGAGTIGICCTCACGAA	87.1	268	AL365102.2	68030		G Exon3	Missense	ŀ	GAC	300	NM 000623.1	13
Bradykinin Heceptor BZ		AE104832	-	ĝ	AACTGACCT[G/AJAGTACAGTG	225	969	AL365102.2	66339	9	A Intron1	Mon-CDS	-  -				
Bradykinin Heceptor B2		AE104633	6	Ť	CTGACCTGA(GVA)TACAGTGAA	873	669	AL3651022	66341	9	A Intron1	Non-CDS	-	-			
Bradykinin Receptor B2	BDKRB2	AE104834	•	٦		674	006	AL365102.2	62672	٥	T Exon3	Non-CDS	-		2	000623.1	2183
Briticycom Heceptor B2		AE 104835	•	٦		875	106	AL365102.2	62558	0	A Exon3	Mon-CDS	-		3	1.000	2167
Brachkinin Nacaptor B2	8	AE104836			GACCGTCTC[G/A]TCGAACAGC	929	206	AL365102.2	62943		A Exon3	Non-CDS	-		3	000623.1	1912
Proteese Inhibitor 4		AE110810	2		аласталатан	1/18	603	1,28101.1	9169	٥	G Exoné	Slen	-	9	ı	19215.1	1163
Proteese Inhibitor 4	1	AE110s11	•		CACGCJA/GITGTTTCC	878	200	1.28101.1	3612	o	T Exon1	Missense	-	8	TGC	NM 006215.1	412
Protesse inhibitor 4	1	AE110s12	•		GGTACCGGAJTTTCATAA	679	908	1,28101.1	2524	o	T 5 Plent	Non-CDS		-	L		
Techyldrin Receptor 1	7	AE106s8	2		ATGTAGATJAGJGTCTTGTGG	089	908	AC007400.3	141073	0	A Intron4	Non-CDS	-				
Tachyldrin Receptor 1	_[	AE106s9	•	٦	CCAGA[T/G]GCAGCTAG	881	206	AC007400.3	143385	s	A antron3	Non-CDS	F				
Anglotenain Converting Enzyme 2	7	AE109a8	12	1	CTTGTGA[C/A]ACAGCT	862	906	AC003669.1	69475	0	T Intron13	Mon-CDS	-  -		-		
Angiotensin Converting Enzyme 2	YOE?	AFIDORO	2	23	AAGTACAITKIGAAGAATT	500	***	A Constant	05.000	-	•	300	Ļ				I

## Table V (1 of 2)

					REFSEO_FLAN	A	REFSEQ FLANK REF	REFSEO ALT (SEQ ID NO: )	REF SEQ.ID	REF SEG POS	REF MT ALT MT	EXOM	MUTATION	MUTATION TYPE REVCOMP	뜐	₹	9	CONA SEG POS
T		e	CONTING NUM CONTING POS	CONTIG POS	OHEN	ATTACACCTECTET TOCCOGRAGATE TAKE	163	278	AL022053.1	95929	0	Emongo	Sterri	+	8	8	(80724.)	2000
T	_	AE10041	-	2 25	4/2	BICTCOTTESCABACASTCICTASTSTTACACTCAGTCCAGT	25	221	AL023653.1	90150	0	+	Non-CDS	• •	-			
T	$\overline{}$	AE10042	1	2 2	***	CAGATTTECCTCACCACGTACTTCCCCCAAGGGGGCACCCAA	165	228	AL023653.1	74483	-	+	Non-CDS	╁				
T	_	AE 10013		***	-	DOCUMENTA A CANADA COTTO A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIGNIFICA A SIG	166	822	A_022659.1	74651	3	4	Non-CDS	•				
T		AE10004		300	-	**************************************	167	022	AL023653.1	54540	٥ ۲	+	Non-CDS		-			
Ī		AE 100e5		3 ;	-	A DE ATTENDE DE ACCOCACIONE EL TENTA TANDECTOTATA	168	231	AL023653.1	78521	9	[hours	Non-CDS	+				
	-	AE100#6		8	1/2	TTTATTTAAAAAAAAAATTTIC/TIC/TIC/TIC/TIC/TIC/TIC/TIC/TIC/TI	169	22	AL022659.1	9999	ű	Trootm	Non-CDS					
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	- 4	AE 100s	<u>.</u>	3 3	-	TAGAGAGCATTGCCACGAAATICGGGTGGCAAATCTCACGTCTG	121	ž	AL023653.1	96239	-	Pironto	NO.	1				
Arriopaphdicae P (membrane-bound)		AE 10060	2		,	TTOCARACCTE ACCATECACCTE ACCTEG BATCACCTEG BATCACCTEG	172	522	AL023659.1	63088	٥	+	Non-CDS					
Amnopapadese P (membrane-bound)	XPNPEPZ	AE100s10	<u>.</u>	35	0	Carried and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a	271	962	AL023653.1	71620	٩	Introdul 3	Non-CDS	9		Ī		
Aminopeptidase P (membrane-bound)	XPNPEP2	AE100s11	5	187	¥.	GAAGCCCAGGGCCCAGGGGGCCCCAGGGGCCCCAGGGCCCCCC	7.5	422	AI 023853.1	71627	0	Etrootil .	Non-CDS	9			1	
Amendedicties P (membrane bound)	XPNPEP2	AE100s12	5	194	۰	AGGCCCCAGAGGTCCTCCCACTTCAAGGCCTCCCACGTCACC	!	1	Al ormess s	71651	8	Etron13	Non-CDS	9				
	XPNPEP2	AE100s13	15	218	٥	GOCTCCCACG TGACCCAG TGACAGGGTTAGGCTGCCCTCT	6/	8		27072		Facer	Non-CD3					
	_	AE100e14		23	WA	аваллавоствалаваллаваютсоваваллавосстесст	24	82	ALUCADA.		ļ.	j	MonChe	٩				
T		1		242	-	<u> Ассететатетествая сетима в мина в сета ма в в ма в ма в ма в ма в ма в ма в </u>	171	540	AL023659.1	200	+	1		1				
Ī	AMPERS	ACTUMETS				TTOCTTOCT AT A STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD AND THE STANDARD	178	241	AL022653.1	66924	٥	+	MORCUS	2	-			
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Aminopepidase P (membrane-bound)	XPNPEP2	AE100s17	z	808		ACTGATACCATGTTTATGTQT/AJICCTTLC/AGGGCCAGTGCC		550	1 (25)	2007	٠	7tuon17	Non-CD6	0				
Christian P (membrane bound)	XPNPEP2	AE100s18	2	786	-	AAATAAATAAAAAAGCCAGJACJGCCAATCTGGTGTGTGCCAG	8			74.680		Stron15	Nan-CDS	8				
		AF100s19	8	8	-	CTCCTCTGGGTCCTCCTCCGGATTCCTCCATATCACCTCTTCC	181	2	A DESCRIPTION			Comme	Monchis	۰				
	Т	AF100e20	2	300	٥	<u> Асстетгвасиветтвасттумајамама астатси соссттет</u>	25	245	AL023653.1	60409			Man CO					
Ī	Т		,	*	W.W	CCTATROARAAGGTCCCAGGICAICCCAGGAACACAGGGGCTTCT	183	246	AL023653.1	60828	+	+		,				
	Τ	ACTIONS!			,	COMMENTATATATATATATATATATATATATATATATATATATA	184	247	AL023853.1	82828	0	+	Monthly		-			
Amropeptolese P (membrans-bound)		AE100622	R			CACATO ACCACATOCA CONTROL TTCACCOTTCACCACA	281	248	AL023653.1	84585	ő	Ema?	Non-CD	+				
Amenopeotidase P (membrane-bound)		AE100423	R	2000		TOTALOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOGOG	961	249	U48231.1	2207	0	Exord	Menne	+	+	3	M 000/10.1	8 1
Bradykinin Receptor B1	- 1	AE103s1	•	303	٥	AATINIGICIII GIGGGCCCAAGCCCCCCCCCCCCCCCCCCCCC	187	250	1,16231.1	1380	0	Exore	Sient	٩	8	ğ	NOT 000710.1	E
Bradykim Receptor B1	BCKR81	AE10342	•	23	-	CTGCTGCACAGAGTGCTGCGGAACATTATCATCTGCATCTG		Ř	11462311	2355	٧	Exord .	Non-CD8	8	-			
Brachkarin Receptor B1	BDKRB1	AE10343	^	958	-	AGAAGCTTGGCTTTCTTATGAGATICTTGTGAGALATAA	1	5	1140711	200	2	Expert	Non-CDS	9				
Prachetrin Facedor B1	BOKRB1	AE10034	-	8	-	TGTTGTTGTGAGGGTCTTCAGTCOGTCGGCCCAGACT				20.00	┝	L	Non-CDS	8				
Reschetzen Receptor 81	BOXPB1	AE10385	7	240	-	ATABTBCTABBATTATABBCTG/AITBBCCACTBCCCTBBCCCC	3	3		87780	-	Incatrol	Non-CDS	9				
Brackenin Becaute 82	80KH82	AE10481	ō	98	¥	CANATCTGCAGGGCTCCCCCCCCGGACCGCCCCAGGTGGGCCCC	181	ě		2000		i monthy	Non-CDS	8				
	RUKBRO	AF10462	2	18	۰	AATCTGCAGGGCTCCCCCCAAGICCGCGCCCAGGTGGGGCCCT	192	ŝ	AL 355 TUE &	2	1	+	SC Contraction	_ 	L			
ORDANIES PROSpector	opp.	ACTORNO	٥	Ş	۰	AABBBCTBBCTBABGTCATBTABTCCCCCTCTBABACTCABTT	193	82	AL355102.2	20880	-			,				
purplem receptor be	00000	AETMEN	ءِ	3		сяввалалоствоздтальновуструдоватьствостатевая	251	25	AL355102.2	28882		THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	No.	,				
District Medical De	CODACO	AEthank	ç	557		твадасставадтастасствативаваасавсасвсятест	56	2	AL355102 2	/8880/	,	1	1	,				
Bracykin's Hecepton by	20000	20.50	٤	711	N.	TOCTOCCAGGGCCCGAAGACGAACAGCACAGTTTTTCTCCAG	8	228	AL355102.2	95000	-	1	+	,				
Brachkerin Heceptor BZ	DOWNER OF THE PERSON	20000	-	107	-	GCCCTGGAGGAGCAGGGGGGCTTGTGGGACACAGACTTGGA	197	92	AL355102.2	96369	9	1		2 ,			NA 000623.1	88
DIROPARTIN PROCEDURE DE		95104-0		27.6	-	адаласталавсявалсявинатерствтеслитатта	82	ž	AL355102.2	62853	1	200	+				NA OCCUPATION	21.17
DESCRIPTION OF THE PROPERTY OF	CODAGO	AFINAS		8	-	TOCCAGITACGICTGCGTAAT/A/GATGCCTCACATGTACGTAG	8	282	A1355102 2	82738	-	1	-	2 9			N# 000623.1	5254
Brackerin Hecapos Be	00 ALB	A Estate 10		125	-	таяславтваннаваннаеминаттанаслостиствтвесси	8	æ	AL3551022	10929	1	1	S S S S S S S S S S S S S S S S S S S	,		L	NM 000623.1	300
Brackern Hecebox 64	2000			85		ATAACAGCTCATTGAGTCTTTTGGCACAGGACAGATGTTCTTTA	Ŕ	ž	AL355102.2	2113	+	+	ł			L	NAU OCONOCA 1	35.08
Brachkinin Neceptor B2	BUNNES	2000		ě		acteattaagtettteacage/jacagatgttettateagg	202	565	AL355102.2	61138	•	T Exon3	+	2 1	 		MA CODE 2	3658
Brachkinin Receptor B2	BUNNES	VE IONIE			**	AAGAGAGTETCAGACCATCAGCTIGTGCTCTGGTGCTGAATGAC	502	992	AL355102.2	61260	٥	Exord	ł	2				ž
Bracykirin Receptor 62	BOXES	AE104613	•	2	1	DOCOGRADO CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTROL DE LA CONTRO	ž	267	AL 355102.2	62220	°	T Exon3	+	8			NON DECES.	3
Brachfurm Receptor B2	BOKTB2	AE104614	•	£	Y.	GCCGA I GG I GAACACCA I TO GO I CO CO CO CO CO CO CO CO CO CO CO CO CO	300	263	AL355102-2	60403	О	3. Park	Non-CD3	8				
Bradykerin Receptor B2	BDXRB2	AE104816	-	0101	-	TATOGAGACAGAC IAGGCAALUATII II GI I IAA IAAA IAAA IA	300	200	AL355102.2	190341	ű	T 3' Flank	Non-CDS	g				
Brachkern Receptor B2	BDXP82	AE104s17	-	200	-	TGAGCGATGAGCCCCAGGIICILLIGGAGIGGAIIGGAGIGGAGIG	.00	97.0	AC007881.3	103685	٧	G Exent	Slent		E	Ē	NAM 001059.2	S
Techytura Receptor 1	TACRI	AE108s1	-	5	1	OCDANGACAGCGGCGATGGGJAGJAGAAGTIGTGGAACTIGTA	2	Ē	ACCOUNTED 3	87.8	0		Sient		ATC	Υ¥	NM 001058.2	2
Techyterin Receptor 1	TACRI	AE106s2	8	32	ΥN	AGCAGGAGGCAGGACCAIGTATGACACAGATGACGCTTT	8 1		400074003	NATES.	-	G Introd	Non-CD8	8				
Techviorin Receptor 1	TACR1	AE10843	•	678	٥	gaatagattAattctacctaftaccctactcAccttacacct	3			13000		L	Non-CDS	8				
Tachnisrin Receptor 1	TACRI	AE106#4		25	٥	CAGAATGGAATGAATGGGCTTTCTTTGGGAAAAGCTGGTCCGAC	2	2	4000000	13000	٥	A Exord		So			NM 001058.2	1635
Technism Receptor 1	TACR	AE10845		820	۰	CAGTGATTTGGTTTGAGTCACAACAGCATGAGGGTGGCAAAG	112		- COOL	130103		2 Expré	-	8			NM 001058.2	1538
Totherin Bernate	TACRI	AETOBAB	•	317	ΥN	CTGACCCTTTTGCAAGTCGCTAGTGTGAGGGTGTTCTGAT	212	6/2	CON. 100.	2000	,	T. Farme	-	-	2	5	NAM 001058.2	¥5
Totalini Because	TACB	AE106s7		511	۰	ттвалаатславатсславалствлаланататавссттвввесс	213	2/8	ACION COLO	2	, ,	L	-	-				
A Paris Laboratory	3	AF 105e1		319	٥	CGCTGGGGAAAGAAAGACAGAAAGGGAATGTTGGAGCTACAG	214	12	X34486.1	9074		1	+	H		L		
1000	3	451050	•	158	٥	BCBBTAGBAABACTGTTAABJAGTBCATCTCTTATTTCTABB	215	278	X24486.1	Sile		╀	$\vdash$	-	900	AGT	NM 000062.1	1278
O DESIGNATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	1	45,006-0		368	۰	CGCATCAAAGTGACGACCAGCTICAGGATATGCTCTCAATCAT	218	239	X54486.1	15401		ļ	+	+	H	1	Nat 00000 1	122
CI Estentee intribute	5	ACTOR A		3	۰	TATCTCCANGATGCTATTCGTTCTTGAACCCATCCTGGAGGTTT	217	82	X54486.1	3483	+	ļ	N INTERNA		5	400	I CHOOLE IN	2
C1 Esterate introduce	2			904		GCTCTACCACGCCTTCTCAGIC/GIANTGAAGAAAGGTGGAGACCA	818	Se	X54486.1	3803	°	+	+	8	5 6	1	T COUNTY THE	1604
C1 Essense Inhibitor	CINE	Ne loop			4/2	TREARCAGE CETTE CTCTT GOVATTGET CTGGGACCAGCAGCAGCAC	219	ğ	X54486.1	18012	0	1	+	2	3	1	1.0000	9
C1 Esterate inhibitor	1	AETICOM		ş	-	Tectacctaltalgagggaggaavaagcccacgtccagaag	022	283	AF277050.1	Ę	1	G Exond	+	2		\$		
Kalibrain 1 (renal/panchess/selvany)	5	WE TO VE	1	3 8	-	CARACTRITATOCOCAAGGCID/AIGGGATGGGGACTCCTGCGTC	122	284	AF277050.1	129	•	A Infrord	Non-CDS		1	1	1 10000	8
Katiloran 1 (renal/pancress/selivary)	3	AETU/EZ	-   •	1	•	<u> маетичтава ттасосасосискавамисоваматавава</u>	222	285	AF277050.1	4632	•	Exon3	$\dagger$	2	DAY)	3		
Kalikran 1 (rene/penchess/salvery)	ž,	A-10/63	,	2 80	•	насовава тававастсствотня тесам в в в можи в в в се	82	982	AFZTTOSO.1	4644	ő	+	+	8				
Katilinen 1 (rene//pancress/safvany)	3	WE IOU	-	\$	-	ABBCCACCCCABCTGTGTGATCTCATGCCTGGAAGTCTGA	224	287	AF277050.1	5693	1	+	$\dagger$	200				
Katilbrein 1 (renel/perscrees/selvary)	5	AETOTES	-	2 2	-	Transporter accar caccing a terrecaga to transporter	525	280	AF277050.1	8298	-	_	1	80	+	:	1000000	5
Kelikrein I (renal/pancheae/salvary)	N. N.	2	-	19	¥2	стестетассататсятсянсятраватсятемавассяятт	643	£	U46231.1	159	٥	Exord	Steril	-	2 5	\$	MA 000710 1	24
Bradykinin Receptor B1	BUXHB	AETUSED	-			I PRA A PROCA O CA O CO CO CO CO CO CO CO CO CO CO CO CO C	644	878	U48231.1	1713	-	A Exord	Seen	-	OF S		100000	E
Brachkinin Receptor B1	BOWNER.	AE10016	-	8	•	TRANCATCACCACCTGCATCICAGITGCTCCTCCCCCATGAGGCC	645	119	U48231.1	1828	3	G Exord	MILE	£	,	1		
Brachkiren Receptor 81	DANCE:	INClive	-															

### Table V (2 of 2)

Decision   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Com	GENE DESCRIPTION	HGNC ID	O days	CONTIG NUM CONTIG POS	CONTRO POS	CHENT	REPSEQ FLANK	(SEO ID NO: )		200		100		-	┝		101 0007.0	L
No. 10.   Proc.   Pr	Brachkmin Receptor B1	BDKP81	AE10369	~	82		GCCTCCCTGCGAACGCGGGAAGAAGGTCAGCAGGACAAGAGT	646	878	U48231.1	1956	1	+	Sterri	gwg	¥6	NM 000/10.1	g
10.000   10.000   10.000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.0000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.000000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.000000   10.000000   10.000000   10.000000   10.000000   10.000000   10.000000   10.000000   10.000000   10.0000000   10.0000000000	Brachkinn Receptor B2	BOXPB2	AE104s18	-	202	-	стававаттесмилтисавтнуттетесласавалавла	2	g	AL355102.2	68174	-	+	SOU-COS	- 1	1		1
1   1   1   1   1   1   1   1   1   1	Snacykinin Receptor B2	BOKRB2	AE104e19	,	330	-	GGTGGGCACGGAGTCCTCACGCAJAACAGAACAGAACATTGATA	879	8	AL355102.2	68037	<	+	Virsense	8	<u> </u>	MA 000623.1	8
10.0000   10.0000   10.0000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.000000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.000000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.00000   10.000000   10.000000   10.000000   10.000000   10.000000   10.000000   10.0000000000	Profyterin Receptor B2	BOKRB2	AE104s20	~	1/2	N/A	ABCCTTAMACCCTTCCTTCJACGAABABAACABATAABABTG	95	58	AL355102.2	101078	т	+	SOD	-	-		
	Snedykinin Receptor B2	BDK FB2	AE104421		808	-	мастатостаттестава цмаювавтаттт в состоеста	989	20	AL355102.2	100659	Т	+	Non-CDS	-	-		
The color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color	indivinin Reporter B2	BOKRB2	AE104s22		634	1	AGTOCTGGGATTTCTTTGTAT/C/GCCACGTACGGCTCCCAAGG	651	683	AL355102.2	100804	т		Non-COS	_	1		
	nachkerin Receptor B2	BOKRB2	AE104623		988	-	CATCTTCAAGGGATGGGTAGAATGATGTCATCAGCCTCCTGG	259	28	AL355102.2	100381	4		Non-CDS	-	+		
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		00000	AETOLOSE		20.0	-	теветтетакетаскаететтетакеметета	759	989	AL355102.2	63794	1		Misserine	1 300	g¥g	NW 000623.1	<u>§</u>
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	conclemen Converting Enzyme 2	ACEZ	AE100s1	1	8		ACTIATABITITISAAAAQAACAACATGGCCTCTCTTCTTC	629	158	ACDC3669.1	68127	{		Non-CDS		1	-	
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					1		OTTOTOTA TANTOTA STORTOTA STOR	800	92	1,28101.1	1282	O	_	Non-CDS	۰			
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935 pet AC0036691 85669 C Introns	ingiolanen Conventing Enzyme 2	AGE2	AE100=0	R	123	0	ATAACAAABAGCCAAGTACACCTIGAAGAATTCATGGGGCTTCT	838	8	AC003669.1		-		200				ļ
45.74 (A.5777FM) 1 (A.5777FM)									-				-	900	-	_		_

#### Table VI

Aminopolitidas P (membrans-bound)         XPNPEP2         AE100s1         1         127         P         P         Ecord2           Bredykänin Receptor B1         BDKRB1         AE103s1         6         307         R         O         Ecord2           Bredykänin Receptor B1         BDKRB1         AE103s2         4         273         P         F         Ecord2           Techtykänin Receptor 1         TACR1         AE105s1         1         614         F         F         F         Ecord2				r										
Brodydin Receptor B1 BDKRB1 AE10381 Brodydin Receptor B1 BDKRB1 AE10382 Techyddin Receptor 1 TACR1 AE10881		127	م	Exon20	Silent	-	33	∞ 900	AAB96394.1	607	1	37	100	8
		200	-	i	Missense	0	563	CAG	NP 000701.1	317	•	8	123	186
	•	£	4		Silent	•	8	CCA	NP_000701.1	=	0	5	124	187
	1	614	u.	Exon1	Silent	-	Ħ	TC N	NP_001049.1	Ξ	92	16	ā	207
Tachydrin Receptor 1 TACR1 AE108s2	2	789	-	Exon2	Siert	-	ATC	ATA	NP 001049.1	2	22	22	145	208
TACRI	9	511	S	Exons	Steri	-	100	TCA NP	NP 001049.1	88	8	87	150	213
SINH	5	386	8	Exon7	Silent	0	V9C	AGT	NP 000053.1	903	72	8	153	216
CINH	,	889	^	Exon3	Missense	٥	ш	oct ⊗ct	NP_000053.1	58	82	16	25	217
CINH	,	168	8	Exon3	Missense	•	QCA	A90	NP 000053.1	52	82	25	25	218
CINH	60	276	>	Exon	Missense		ата	ATG	NP_000053.1	8	8	83	158	219
KLK1	-	£	π m	Exon	Missense	0	W	A)	NP 002248.1	8	8	z	157	82
2	~	8	$\vdash$	l	Missense	0	GAG	CAG	NP 002248.1	345	8	8	159	83
-		16	-	1	Shert		AAC	AAT	NP_000701.1	7	958	679	611	643
	_	ē	-	l	Slert	0	AGG	AGA NP	NP_000701.1	52	858	089	612	256
	_	8	-	l .	Missense	0	ста	GTG NP	NP_000701.1	5	999	581	613	645
	2	<u>\$</u>	m	'	Silent	•	GAG	GAA	NP_000701.1	æ	295	2995	614	979
	^	828	σ.	Exon2	Missense	-	тез	TGT	NP 000614.1	*	35	584	616	648
	•	85	٥		Stert	-	GAT	GAC	NP 000614.1	31	286	299	128	663
	•	1046	9		Missense	-	999	GAG NP	NP 000614.1	ž	33	085	223	758
Enzyme 2	15	241	z	Exon16	Slert	-	TA	WC A	AAF78220.1	88	643	108	623	996
Protesse Inhibitor 4 Pt4 AE110s2	2	828	u	Exon2	Slert	۰	£	 E	NP 006206.1	8	574	603	553	667
Did AE110s5	•	8	s	Exon	Siert		AGT	AGC NP	NP_006206.1	961	929	909	638	670

DNA panel	Coriell Catalog #	Sample Description	XPNPEP2 BDKRB1	BDKRB2 TACR1	R1 C1NH	KLK1 P14	ACE2 T-LI- VIIIA	<
Coriell 24 panel	NA14905	African American	×	×	×			1
Coriell 24 panel	NA14922	African American	×	×	. <b>×</b>			1
Coriell 24 panel	NA14923	African American	× ×	×	×			
Coriell 24 panel	NA14924	African American	× ×	×	×			
Coriell 24 panel	NA14925	African American	×	×	×			
Coriell 24 panel	NA14932	African American	×	×	×			
Coriell 24 panel	NA14933	African American	×	×	×			
Coriell 24 panel	NA14934	African American	×	×	×			
Coriell 24 panel	NA 17201	Caucasian	×	×	×.			
Coriell 24 panel	NA17202	Caucasian	×	×	×			
Coriell 24 panel	NA17203	Caucasian	× ×	×	×			
Coriell 24 panel	NA17204	Caucasian	×	×	×			
Coriell 24 panel	NA17205	Caucasian	×	×	×			
Coriell 24 panel	NA17206	Caucasian	× ×	×	×			
Coriell 24 panel	NA17207	Caucasian	×	×	×			
Coriell 24 panel	NA17208	Caucasian	×	×	×			
Coriell 24 panel	NA00576	Chinese	×	×	×			
Coriell 24 panel	NA03433	Chinese	×	×	×			
Coriell 24 panel	NA06090	Chinese	×	×	×			
Coriell 24 panel	NA07426	Chinese	×	×	×			
Coriell 24 panel	NA02345b	Japanese	×	×	×			
Coriell 24 panel	NA11589	Japanese	×	×	×			
Coriell 24 panel	NA14819	Japanese	×	×	×			
Coriell 24 panel	NA04535	Japanese	×	×	×			
Corell 8 panel	NA14672	African American				William Co.		
Corell: 8 panel	NA14682	African American				X		
Corell 8 panel	NA14683	African American				X - X X	No. of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of	
		African American				X	2	
5.040		African American				×		
Corell 8 panel 🥕 🦰		African American				X - X	æ	
		African American				×	$\mathbf{x}$	
HD 50 AA panel	NA1850	African American	×					
HD 50 AA panel	3382	African American	×					
HD 50 AA panel	3725	African American	×					
HD 50 AA panel	9865	African American	×					
9.5.3	7754	African American	×					
HD 50 AA panel	10251	African American	*					
HD 50 AA panel	10378	African American	×					
HD 50 AA panel	12931	African American	×					
HD 50 AA panel	13294	African American	×					
HD 50 AA panel	14439	African American	×					
HD 50 AA panel	14441	African American	×					
HD 50 AA panel	£ 9/4.	African American	×					
HD 50 AA panel	14464	African American	×					

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	מווא שומקו																																											
ACE2																																												
P14																																												
KLK1																																												
C1NH																																												
TACR1																																												
<b>BDKRB2</b>																																				,								
BDKRB1																																			×	×	×	×	×	×	×	×	×	×
XPNPEP2	×	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×										
Sample Description	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	African American	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian
Coriell Catalog #	14537	14583	14681	14687	14697	14699	14720	14746	14754	14755	14771	14772	14783	14826	14837	14862	14863	14864	14892	14893	14894	14895	14897	14900	14901	14903	14904	14905	14922	14923	14924	14925	14932	14933	NA 17201	17202	17203	17204	17205	17206	17207		17209	17210
DNA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel		HD 50 AA panel	HD 50 AA panel		HD 50 AA panel		HD 50 AA panel	HD 50 AA panel			HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 50 AA panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel

Toble VIII																																												
ACE2																																												
PI4																																												
KLK1																																												
CINH																																												
BDKRB2 TACR1																		gran gran	*****																									2774
XPNPEP2 BDKRB1	X	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	Y
Sample Description	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian	Caucasian
Coriell Catalog #	17211	17212	17213	17214	17215	17216	17217	17218	17219	17220	17221	17222	17223	17224	17225	17226	17227	17228	17229	17230	17231	17232	17233	17234	17235	17236	17237	17238	17239	17240	17241	17242	17243	17244	17245	17246	17247	17248	17249	17250	17251	17252	17253	4CZ/1
DNA panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel		HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	HD 100 CAU panel	th and	HD 100 CAU panel	HD 100 CAU panel	HD:100 CAU panel	HD 100 CAU panel						

DNA panel	Coriell Catalog #	Sample Description	XPNPEP2 BOKRB1	BDKRB2 TACR1	C1NH	KLK1	PI4	ACE2	Table VIII
HD 100 CAU panel	17255	Caucasian	×	and Si					ומטום אוור
HD 100 CAU panel	17256	Caucasian	×						
HD 100 CAU panel	17257	Caucasian	*						
HD 100 CAU panel	17258	Caucasian	×						
HD 100 CAU panel	17259	Caucasian	×						
HD 100 CAU panel	17260	Caucasian	×						
HD 100 CAU panel	17261	Caucasian	×						
HD 100 CAU panel	17262	Caucasian	×						
HD 100 CAU panel	17263	Caucasian	×						
HD 100 CAU panel	17264	Caucasian	×						
HD 100 CAU panel	17265	Caucasian	×						
HD 100 CAU panel	17266	Caucasian	×						
HD 100 CAU panel	17267	Caucasian	*						
HD 100 CAU panel	17268	Caucasian	×						
HD 100 CAU panel	17269	Caucasian	×						
HD 100 CAU panel	17270	Caucasian	*						
HD 100 CAU panel	17271	Caucasian	×						
HD 100 CAU panel	17272	Caucasian	×						
HD 100 CAU panel	17273	Caucasian	×						
HD 100 CAU panel	17274	Caucasian	×						
HD 100 CAU panel	17275	Caucasian	×						
HD 100 CAU panel	17276	Caucasian	*						
HD 100 CAU panel	17277	Caucasian	×						
HD 100 CAU panel	17278	Caucasian	×	,***					
HD 100 CAU panel	17279	Caucasian	×						
HD 100 CAU panel	17280	Caucasian	*	- 3					
HD 100 CAU panel	17281	Caucasian	×.						
HD 100 CAU panel	17282	Caucasian	×						
	17283	Caucasian	×						
HD 100 CAU panel	17284	Caucasian	×	<b>X</b>					
HD 100 CAU panel	17285	Caucasian	×						
HD 100 CAU panel	17286	Caucasian	×						
HD 100 CAU panel	17287	Caucasian	×						
	17288	Caucasian	×						
HD 100 CAU panel	17289	Caucasian	×						
HD 100 CAU panel	17290	Caucasian	×						
HD 100 CAU panel	17291	Caucasian	×						
HD 100 CAU panel	17292	Caucasian	<b>*</b>						
HD 100 CAU panel	17293	Caucasian	×						
HD 100 CAU panel	17294	Caucasian	×						
HD 100 CAU panel	17295	Caucasian	X						
A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR						:	;	;	

Omapatrilat Trial Samples 12 angioedema patients

# Table VIII(1 of 2)

# Table VIII(2 of 2)

BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX   BDX	AE10386 AE10386 AE10388 AE10388 AE10388 AE104818 AE104820 AE104820 AE104820 AE104820 AE104820 AE104820	Exon3	O O	TOTAL MAINE	21101		707		-
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	AE10339 AE10338 AE10338 AE10338 AE104318 AE104320 AE104322 AE104323 AE104323	CVAIS	,	AF103ngn10	1148231 X2.12a	GCCTCTGATCTGGTGTTTGTC	2	CTGTGGTCTTGCTATCCTTCG	739
BO   BO   BO   BO   BO   BO   BO   BO	AE10358 AE10358 AE10358 AE104518 AE104520 AE104522 AE104523 AE104523			AE103non10	1148231 X2 P3	GCCTCTGATCTGGTGTTTGTC	708	CTGTGGTCTTGCTATCCTTCG	740
BO   BO   BO	AE104839 AE104818 AE104819 AE104820 AE104821 AE104823 AE104823 AE104823	Exons		AE103pon10	148231 Y2 Pa	GCCTCTGATCTGGTGTTTGTC	82	CTGTGGTCTTGCTATCCTTCG	741
10   10   10   10   10   10   10   10	AE104s18 AE104s19 AE104s20 AE104s21 AE104s22 AE104s22	CXONS		AF103n13n14	1148231 X2 f3a	CACTITIGCAAGGATTGTGGAG	710	AAGAAAGCCAAGCTTCTTGGT	742
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	AE104s29 AE104s21 AE104s22 AE104s23 AE104s23	John Or Even	\ \ \	AF104n65n66	BDKRB2 X3-5a	GGCAGGCCAGGAATTAGTCT	711	AGATCCAGACAGAGGAGGG	743
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	AE104520 AE104521 AE104522 AE104523	Evons	-	AF104065066	BDKRB2 X3-5a	GGCAGGGCAGGAATTAGTCT	712	AGATCCAGACAGAGGGGG	744
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	AE104s21 AE104s22 AE104s23	S'Flank	-	AE104p89p90	BDKRB2 x1-3a	CTGGGATTTCTTTGTATGCCA	713	AGAGCCTACAGCCAGTTCACA	745
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	AE104s23 AE104s23	5'Flank	-	AE104089090	BDKRB2 x1-3a	CTGGGATTICITTGTATGCCA	714	AGAGCCTACAGCCAGTTCACA	746
BO	AE104s23	S'Flank	<del> </del>	AE104087088	BDKRB2 X1-2	ACCTTCGCTCTCCGCTCT	715	AGAAACCTCCGCCATACATCT	747
BD	AF104e24	5'Flank	-	AE104081082	BDKRB2 X1-1a	ACGACCACAGGGAAACTTCTC	716	GAGGACGTTTTGCCGTC	748
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100		Fyons	-	AF104065066	BDKRB2 X3-5a	GGCAGGCAGGAATTAGTCT	717	AGATCCAGACAGAGGGGG	749
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	AF104e25	Frons		AE104p65p66	BDKRB2 X3-5a	GGCAGGCCAGGAATTAGTCT	718	AGATCCAGACAGAGGAGGG	750
Enzyme 2   RO	AE104e26	Fyons	-	AE 104061062	BDKRB2 x3-4a	GACCTCCTTGTCCATCAGTGA	719	GGGCTGCTGTGATTTGTGTA	751
BOD	AE 104507	Exons	-	AF 104057058	BOKRB2 X3-3a	TCCCAGTTACGTCTGCGTAAT	720	GCTGAGTGCACAAGTGAGTTG	752
BUD	AE10420	EXONS		AF 104053054	ADKRR2 X3-29	GCCACCTTCCAATAAACCATT	721	GGGTGATATGGACAGCAGAAG	753
Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG Enzyme 2 AG (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound) (Internbate bound)	ALTONO	Exons	-	AF104n53n54	BUKRR2 X3-2a	GCCACCTTCCAATAAACCATT	722	GGGTGATATGGACAGCAGAAG	754
AC   AC   AC   AC   AC   AC   AC   AC	AFTOORS	Exorio Tetros 4		AE100025026	ACE2 v14a	TTAAAACCCAAAGC	723	TTTCTCGTTTTCCAAAAGCCT	755
AC   AC   AC   AC   AC   AC   AC   AC	AF10051	Ingrount4		AE 10002000	ACE2 x13a	CACCATAGCAGAGAAGAAGCA	724	GCCAAGTCAAAGAGAAGCC	756
Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Place   Plac	AETUSK	Ingoniz-	-	AE 100 pe 90 co	ACE2 v13a	CACCATAGCAGAGAAGGAAGCA	725	GCCAAGTCAAAGAGAAGAACC	757
NO   NO   NO   NO   NO   NO   NO   NO	ACTORES	Introno	-	AF 109n69n70	ACE2 x3a	GTAAGGTTGGCAGACATCAGG	726	AAAAATCATGTGGTCAAAAGGA	758
NO   NO   NO   NO   NO   NO   NO   NO	AETOSA	ations.	†	AF 109n69n70	ACF2 x3a	GTAAGGTTGGCAGACATCAGG	727	AAAAATCATGTGGTCAAAAGGA	759
Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4   Pl4	AETOOR	Introd &	-	AF109017018	ACE2 x16a	CTGTGGGATCCTTCTGGAATT	728	ĿΙ	760
ung Eusyme z PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR  Plate PR	AE100e7	Fyorth	-	AF 109017018	ACE2 x16a	CTGTGGGATCCTTCTGGAATT	729	CAATTACATCCTCTCATTGTTTGC	761
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Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 4  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Plantition 8  Pl	AF110c3	Intron	0	AE110p25p26	P14 X3a	GCCTGGGTACAAAGGAACCT	732	CCGAGTTCTCTAGGGATTGCT	764
PH  Base Inhibitor 4  PH  PH  PH  PH  PH  PH  PH  PH  PH  P	AF110s4	Intron2		AE110p25p26	P14_X38	GCCTGGGTACAAAGGAACCT	733	CCGAGTTCTCTAGGGATTGCT	765
Pik ase Inhibitor 4  see Inhibitor 4  see Inhibitor 4  e P (membrane-bound)  e P (membrane-bound)  e P (membrane-bound)  e P (membrane-bound)  e P (membrane-bound)  e P (membrane-bound)  e P (membrane-bound)  in Receptor B1  inin Receptor B1  inin Receptor B1  inin Receptor B1  inin Receptor B2  inin Receptor B2  inin Receptor B2  inin Receptor B2	AE110s5	Exon1	0	AE110p17p18	PI4_X1.15a	AAGAACATCTTTTCTCCCCG	734	CAACAATTAGTGGGTTGGAGG	767
Pix assa inhibitor 4  assa inhibitor 4  assa inhibitor 4  as inhibitor 4  a P (membrane-bound)  a P (membrane-bound)  a P (membrane-bound)  a P (membrane-bound)  a P (membrane-bound)  a P (membrane-bound)  a P (membrane-bound)  in Receptor B II  in Receptor B II  in Receptor B II  in Receptor B II  in Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Receptor B II  inin Rec	AE110s6	5'Flank	0	AE110p5p6	P14_X1.f28	TAGAAGCTTTTTGGCCTGACA	735	TOTOGOTOTOTO	101
ase Inhibitor 4  age Inhibitor 4  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)  P (membrane-bound)	AE110s7	5'Flank	0	AE110p5p6	P14_X1.f2a	TAGAAGCTTTTTGGCCTGACA	736	TOTTACOCOCTACACAACA	99/
	AE110s8	5'Flank	0	AE110p1p2	P14_X1.f18	ATGGTGAGACCCCGACICIAL	13/	TOTTACOCCIACAGACAGG	022
	AE110s9	5.Flank	0	AE110p1p2	PI4_X1.fla	AIGGIGAGACCCCGACICIAI	88	TCAGTTGTCCTGCTTCAG	886
	AE100s24	Intron11	0	AE100p45p46	XPNPEP2 X128	TAAATGACAGGTCAGGGCTTG	263	CAGCICICAGGCCTITICATI	686
	AE100s25	Intron13		AE100p49p50	YDNDEP2 X13a	TAAATGACAGGTCAGGCTTG	38	CAGCTCTCAGGCCTTTTCATT	066
	AE 100627	Ingon! 3		AF100n29n30	XPNPEP2 X8a	GGCCCATGTCATTAATGAGTAC	962	TCAGGGCTACCTTTTGTCCTT	991
	AF100s2	Fron?1		AE100093094	אוי	GAACTITICCAAAGTGCAGCC	996	ACACATACTCTCAAGCCCACG	992
	AE100s29	Exon21		AE100p93p94	XPNPEP2_X21.f4a	GAACTITCCAAAGTGCAGCC	296	ACACATACTCTCAAGCCCACG	983
	AE100s30	Exon6	0	AE100p17p18	XPNPEP2 X5a	GAGAATCTCTTTCCAGAGGCC	896	TGCACGCTCTCACCI	500
	AE103s10	Exon3	0	AE103p25p26	U46231_X2.f6a	ACTTCCCAGACTCAAGGGATC	696	CGTGGTGTTCATGCAATT	988
	AE103s11	Exon3	0	AE103p25p26	U48231_X2.f6a	ACTICCCAGACICAAGGGAIC	970	Cordination	200
	AE103s12	Exon3	0	AE103p25p26	U48231 X2.158	ACTTCCCAGACTCAAGGGATC	226	CGTGGTGTTCATGCATT	868
	AE103513	EXOLD		AE10302020	1148231 X2 fba	ACTTCCCAGACTCAAGGGATC	973	CGTGGTGTTCATGCAATT	686
	AE103514	Exons	-	AF104n53n54	BDKRB2 X3.12a	GCCACCTTCCAATAAACCATT	974	GGGTGATATGGACAGCAGAAG	1000
	AE104e31	Fyord	-	AF104081082	BDKRB2 X1.f1a	ACGACCACAGGGAAACTTCTC	975	GAGGACGTTTTGCCGTC	1001
	AF104s32	Intron1	-	AE104p81p82	BDKRB2_X1.f1a	ACGACCACAGGGAAACTTCTC	976	GAGGACGTTTTGCCGTC	1002
Brachstinin Baranter B2 BDKRB2	AE104s33	Intron1	-	AE104p81p82	BDKRB2_X1.f1a	ACGACCACAGGGAAACTTCTC	226	GAGGACGTTTTTGCCGTC	1003
	AE104834	Exon3	-	AE104p73p74	BDKRB2_X3.f7a	TCGCTGTACTCCTTCATGGTC	978	TTTTGTCCTTCCTTGTGAC	100
-	AE104s35	Exon3	1	AE104p73p74	BDKRB2_X3.f7a	TOGCTGTACTCCTTCATGGTC	979	THITIGICALICACITICAC	900
Bradykinin Receptor B2 BDKRB2	AE104s36	Exord	-	AE104p73p74	BDKRB2_X3.f7a	TCGCTGTACTCCTTCALGGIC	286	TITIEST CONTINUES OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE	1007
	AE110s10	Exon4	٥	AE110p29p30	P14 X48	ATOTOGOCICICGCAGICII	980	TGTTACCCCGTACAGACAAGG	1008
	AE110s11	Exon1	0	AE110p1p2	P14 X1.118	ATGGTGAGACCCCGACTCTAT	983	TGTTACCCGTACAGACAAGG	1009
	AE110S12	5 Flank		AETOSODIO	TACB1 X4s	AAGTTAGCTGCAGTCCCCACT	88	GCTTCATCCCATACTGTGCA	1010
Techykinin Heceptor 1	AF106e9	Introduction 3	-	AE106013014	TACR1_X38	CTGGGTTCCAAAGACACTGAA	982	TATGCAGGTGACAAGTCTCCC	1011
Anniotomein Convention Enzyme 2 ACE2	AF109s8	Intron13	-	AE109p29p30	ACE2_X13a	CACCATAGCAGAGAAGAAGCA	986	GCCAAGTCAAAGAGAAGAACC	1012
	AE109s9	Intron6	-	AE109p57p58	ACE2_X6a	CAAAATGCGATTTCTACAATGTT	887	TGGAATGGAAALIAGAALIGGIL	1013

# Table IX (1 of 2)

eequencing primer (SEQ ID NO:)	486	488	489	490	491	492	24	495	496	400	98	500	501	502	503	504	505	208	507	508	509	510	511	512	513	514	213	210	23.0		600	501	200	23	524	525	526	527	528	529	530	531	232	533	256	58	200	2 2 2	200	800		542	543	544	545	546	547	548	803	804	802	909	100	900	200	910	611	812	RIA	914	813	010
Reverse sequenci																																																																								
reverse seq name	AE100p80	AF100060	AE100p60	AE100p4	AE100p28	AE100pz8	AE100p40	AE100p28	AE100p52	AE100p52	AF 100M	AF10054	AE100b32	AE100068	AE100068	AE100¤60	AE100p84	AE100084	AE100p88	AE100p88	AE103p16	AE103p8	AE103p20	AE103p4	AE103p28	AETOADSB	AETONAN	AFTONOM	ASTORAGO	ACCOUNT	AE104532	AE104n38	AF104n28	AETOANSB	AF104n12	AE104012	AE104012	AE104p24	AE104p6	AE104p6	AE106p26	AE106p20	AE106p16	AE106p4	AE 10604	AE 106p4	AE10608	AE105520	AE105028	AEGENTO	AF105016	AE105036	AE107p16	AE107p18	AE107p18	AE107p16	AE107p20	AE107p20	AE103p12	AE103p12	AE103p12	AETUSDIB	AETORDOS	ACTORDOS	AE104092	AE104592	AETONOSA	AETOADS	AF104068	AE 104000	AF104060	AE IMPOR
Reverse sequencing primer	AGGCTGGTCTGACTGGAAAGT	TGTCAGTGGCTGAAATATCC	TGTCAGTGGCCTGAAATATCC	AGAGGTCAGAGCTGCCTTCC	TAAACAAGCATCCCAGGTGAC	AAGAAGGAACTCAAGGIGAC	AAGAAGGGAACTCACTGCACA	TAAACAAGCATCCCAGGTGAC	GCAACTCCCTACTCCACACTG	GCAACTCCCTACTCCACACTG	AGAGGTCAGAGCTGCCTTCC	AGAGGTCAGAGCTGCCTTCC	CTTACCCTTCTTGGTTCCCAC	AGCTGGGTAACCTTGGGTAGA	AGCTGGGTAACCTTGGGTAGA	TGTCAGTGGCCTGAAATATCC	TGGGACCTTCTCCATAGGTCT	TGGGACCTTCTCCATAGGTCT	GGTTGATGTTTCATGCCCTG	GGTTGATGTTTCATGCCCTG	TCAATGCTGTTTTAATTCCGC	ATGAACAAATTGGCCTTGATG	AGGACCCATTCCTTCTGGAG	GGATCAGATGAACCCAGGAGT	IGGIGIGITCAIGCAATTICI	CITIGGGATICCCICCII	CONGRETICATION	CCCAGGTTCTCTCCAGAAAAA	CCAGGTTCTCGAGAAAAA	COCACATOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO	GetCoertetcorocett	CAGAAAGCTGTTCGACGAGAC	CAGAAAGCTGTTCGACGAGAC	CAGAAAGCTGTTCGACAAGAC	TGGAGGAAGAAACAGGTGAA	TGGAGGAAGAAACAGGTGAA	TGGAGGAAGAAACAGGTGAA	ACACAGTAGGTGCTCATTGGC	TGGATGAGGTTTTTGCATAGC	TGGATGAGGTTTTTGCATAGC	TTACCGCAAGAGAGATGCTGT	TGGCAGGAAAAATATGGAATC	GTAGCTGCCAAACCTTGACTG	GAGAGCTTCAGCTTCTCCTCC	GAGAGCTICAGCTICICCICC	GAGAGCTICAGCTICICCICC	AGGICACCICICAICIGCI	CIGCAGICCAICCCIGAIAC	ACCCCAMANICAL GGGACIAC	ATOTOTOGOAGCTAGT	GTCCAACAATGACCTGGAGA	GAGCTGAGGCTGGAGGTAG	CCTCACCACAGGTGTCTTT	CCTCACCACAGGTGTCTTT	CCTCACCACAGGGTGTCTTT	CCTCACCACAGGTGTCTTT	GTGCACCACATCTGGAAAGAT	GTGCACCACATCTGGAAAGAT	CACTETTGTCCTGCTGACCTC	CACTETTGTCCTGCTGACCTC	CACICITGICCIGCIGACCIC	ICAMIGCIGITI IAMI ICCGC	GGIIGIGCIGCIGCIALICA	GGLIGIGGIGGIGGIGLIALICAL	GCCACCAL AAACIGAICIGA	GCCACCCAIAAACIGAICIGA	AGAAACCI CCGCCAIACAICI	GAGCIACGCAACAIGGAAAI	POST TOTAL CONTROL OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST OF THE POST	GGI I GI GCI GCI GCI ALI COL	TOCOCTAGATTTCTTTAATCT	ומתתווותווותווות
d sequencing primer (SEQ ID NO:)	423	425	426	427	428	637	431	432	433	476	957	437	438	639	440	441	442	443	444	445	446	447	448	449	85	451	750	25	724	466	157	458	450	A60	461	462	463	24	465	466	467	468	469	470	4/1	472	473	4/4	67.5	0/6	478	479	480	481	482	483	484	485	771	772	773	//4	1/3	9//	,,,,	778	200	780	782	787	784	901
forward seg name Forward	AE100p79	AE10059	AE100p59	A AE100p3	AE100p27	AF100539	AE100p39	AE100p27	AE100p51	AE10053	A AF1003	A AF10003	AE100031	AE100p67	AE100067	AE100p59	AE100p83	AE100p83	AE100p87	AE100p87	AE103p15	AE103p7	AE103p19	AE103p3	AE10302/	AE104035	AE104530	AE104530	AF104039	AE-1040-30	AE104031	AE104n27	AF104n27	AF104n27	AE104011	AE104p11	AE104p11	AE104p23	AE104p5	AE104p5	AE106p25	3 AE106p19	AE108p15	AE106p3	AETOBOS	AE10603	AE1060/	AE105019	AE10502/	AE105031	AE105015	AE105035	AE107p15	AE107p15	AE107p15	AE107p15	AE107p19	AE107p19	AE103p11	AE103p11	AE103p11	AETGSD15	AE104pb/	AE104po/	AETOADS	AE104p91	AE104587	AE104p85	AE104n87	ACTORDO	AE104pps	AE IUNDO
Forward sequencing primer	CARTACTCCTCCTCCCTCACC	CACTTGTGGAAAGCACACAGA	CACTTGTGGAAAGCACACAGA	CCTCTGTCTCTGAGATCTTTGG	GCAAAGGGAACCAGGACTAAC	CTTTGCATCCTTAGCAGATGC	CTTTGCATCCTTAGCAGATGC	GCAAAGGGAACCAGGACTAAC	AGTTGAGAGGTAGAGGCAGCC	AGT GAGAGGIAGAGGCAGCC	CCTCTGTCTCTGAGATCTTTGG	CCTCTGTCTCTGAGATCTTTGG	AGGGTTTCGCTGCTTTTAAG	CAAGGTGGACAGTCTTCGGTA	CAAGGTGGACAGTCTTCGGTA	CACTTGTGGAAAGCACACAGA	CAAGACTTCACCTCTTGGCAG	CAAGACTTCACCTCTTGGCAG	ACTGAACATACCCCAAGAGCC	ACTGAACATACCCCAAGAGCC	TCTGGGTTTCCTCCTACCACT	GACAGGTTGGTTTGGCTCATA	CACCCTAAAAGICTIGCTCC	GCTGGAACACAGACCATTAA	CICAGCCICCIGIAGCIGAGA	GCACCGAGGGAGIAAAIGIC	GCAGGCAAATACCACTTTCAA	ACAGGCAAATACCACTTCAA	GCAGGCAAATACCACTTCCAA	GCAGGCAAATACCACTTCAA	GAGCTGAACTACGAGTCACGG	ATCTTCCTCTCATCACA	ATCITICATORICATORICA	ATCITICATORICATORICA	AAAGGCTTCTGAGTGTGCAAG	AAAGGCTTCTGAGTGTGCAAG	AAAGGCTTCTGAGTGTGCAAG	саваттставсссттсттвет	TGGGAGTATGAAACAAGTGGC	TGGGAGTATGAAACAAGTGGC	TTGTGGGCTAAGATGATCCAC	GAAAGAAAGAGCAAGAAGGGG	cercicerecterianies	GGCTCCAGGAAAIGAGTCTT	GGCICCAGGAAAAIGAGICII	GGC I CCAGGAAAA I GAGICII	Al GGI I CCAGA I GAAGGGAAT	CCGACICAICCIGCAAGIAIC	AACCOTOCAACCTTAGGTCTC	TTCCACATOCACCTTCTC	ATACCACTGATGAACCCACCA	CTCCATCAGCTGAGGGTATCA	CCTGACAGAGCCTGCTGATAC	CCTGACAGAGCCTGCTGATAC	CCTGACAGAGCCTGCTGATAC	CCTGACAGAGCCTGCTGATAC	CCCCGTAGACCTTTCTCACTC	CCCCGTAGACCTTTCTCACTC	CCCTTCTGGGCAGAGAATATC	CCCTTCTGGGCAGAGAATATC	CCCTTCTGGGCAGAGATATC	ICI GGGI ICCI CCI ACCACI	GGIGITIACCGGAGACAICA	GGIGITIACCGGAGACAICA	CAGAAGCIGICCIGIIICCIG	CAGAAGCTGTCCIGTTCCIG	ACCITOGOLOGOGO	CTCIGIGCIGGGACACACITO	GG GIIIITACCGGAGAGACATCA	TATACATOCAGAGACACATOTA	A COTTAGO PO COTTAGO TO TO TO TO TO TO TO TO TO TO TO TO TO	ACG MGCACCCT I IGOT I I IC
Target Name	XPNPEP2 X20a	XPNPEP2 X15a	XPNPEP2_X15a	XPNPEP2 X1a	XPNPEP2 X7a	XPNPEP2 X10a	XPNPEP2_X10a	XPNPEP2_X7a	XPNPEP2 X13a	XPNPEP2 X13a	XPNPFP2 X13	XPNPEP2 X1a	XPNPEP2 X8a	XPNPEP2 X17a	XPNPEP2 X17a	XPNPEP2 X15a	XPNPEP2 X21f1a	XPNPEP2 X21.f1a	XPNPEP2_X21.f2a	XPNPEP2 X21.12a	U48231 X2.f3a	U48231 X2.11a	U48231 X2.14a	U48231 X1a	U48231 X2.16a	BUNNEZ ALTIS	BUKDES X113	BUKBBY X 19	BUKBB2 X112	BUKBBY X4 12	RUKRB2 X2*	ROKBRO X3 (7.8	BOKER2 X3 72	BUKBB2 X3 73	BDKRB2 X3.13a	BDKRB2 X3.f3a	BDKRB2 X3.f3a	BDKRB2_X3.f6a	BDKRB2_X3.11	BDKRB2 X3.11	TACR1 X1.f1	TACR1 X2a	TACR1 X3a	TACH1 X5.na	TYPE YELL	TACHT X5.11a	CANT AS IZA	CINT A48	EN LANG	SALE VALUE	CINH X3 13	CINH X8 fta	KLK1 X4a	KLK1 X48	KLK1_X4a	KLK1_X4a	KLK1 X5a	KLK1 X5a	U48231 X2.f2a	U48231 X2.f2a	U48231 X2.12a	048231 X2.138	BUNHB2 X3-38	BUNNEZ AS-38	BUKHBZ X1-38	BDKRB2 x1-3a	BUKHBZ A1-Z	BDKHBZ X1-18	DUNDE AUG	BUNNBZ AS 36	BUKNEZ X3~4	BUNNEZ ASSO
REVCOMP	0		٥		0		٥	٥	٥	5			0	0	0	٥	۰	۰	٥	٥	٥	٥		0	٠,	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	- 6	9	,	•	,			۰	۰	0	٥	٥	٥	٥	0		-	-	-	- .	- -	-	-	- .	-	
EXON		1_	Intron15	Intron1	Intron7	Intron 10	Intron10	Intron7	Intron13	Internal	Fxon	Exons	Intron8	Intron17	Intron17	Intron15	Intron21	Exon21	1 1	Exon21	-4	4	4	Exon			Infrant.		Infrant.		Intron				Exon3			Exon3			Exou	_1.		EXOUS	_L	_	_	4	-	_	2 6	+	┺	₽-	ш		3' Flank	3' Flank	Exor3	Exon3	Exon3	Z CX	AETONSTA ITON OF EXO	CKOUZ	SHank	SFlank	SFlank	S'Flank	E CXOLD			
SNP ID			AE10084	AE100s5	AE10056	AE100s8	AE100s9	AE100s10	d) XPNPEP2 AE100s11	AF100s13	AE100314	AE100s15	AE100316	AE100s17	AE100s18	AE100s19	AE100s20	AE100821	AE100s22	AE100s23	AE103s1	AE10382	AE10383	AE10354	AE10353	AETOAS	AF 10463	AF 104ed	AF104s5	AE104e6	AF 104s7	AF104s8	AF10489	AF104e10	BDKRB2 AE104811	AE104312	AE104813	AE104s14	AE104s16	AE104917	AE106s1	AE10682	AE10683	AE10634	AETUGSO	AE10655	AE1005/	AE10581	AE10382	AFIOES	AF105e5	AE105s6	AE107s1	AE107s2	AE107s3	AE10784	AE107s5	AE107s6	AE103s6	AE103s7	AE 10388	AE10389	AETOASTE	AETOGETE	AE104820	AE104821	AE104324	AE104823	AE10Ae2	AE 1049C	AE1048C	AE IVASZI
HGNC_ID	XPNPEP2	+-	XPNPEP2	XPNPEP2	XPNPEP2	XPNPEP2	XPNPEP2	XPNPEP2	XPNPEP2	XPNPEP	XPNPEP2	XPNPEP2   AE10	XPNPEP2 AE10	BOKRB1	BDKRB1	BUKHBI	BUKHBI	BUNHBI	SOLVOO	BOKBB2	BOK BB2	BOKBB2	BOK BB3	BDKBB2	BOKBB2	BDKRB2	BOK BR2	BDK RB2	BDKRB2	BDKRB2	BDKRB2	BDK HB2	BDKRB2	TACR	TACH	TACRI	E S	ACH	¥ S		2 2			E E	P. C	KLK1	KLK1	KLK1	KLK1	-	-+	BDKRB1	BDKRB1	BUKRBI	BOKKBI	BOARBA	מפאנים	BOKKER	BOXES	BUNNEA	BOKR82	STATE OF THE PERSON	DUNABL	BUNDE	DUNNDE							
GENE DESCRIPTION	Aminosoptidase P (membrane-bound)	Aminopeptidase P (membrane-bound)	Aminopeptidase P (membrane-bound)	Aminopeptidase P (membrane-bound)	Aminopolidase P (membrane-bound)	Aminopeoridase P (membrane-bound)	Aminopeptidase P (membrane-bound)	Amin peptidase P (membrane-bound)	Amin specificase P (membrane-bound)	Aminoedidase P (membrane-bound)	Aminopeotidase P (membrane-bound)	Aminopeptidase P (membrane-bound) X	Bradykinin Receptor B1	Bradykinin Receptor B1	Bradykinin Receptor B1	Bradykinin Receptor B1	Disaptinin Receptor Bi	Brachtinin December 02	Bradykinin Recentor Ro	Bradukinin Becenter Bo	Bradykini Becentor 82	Brachkinin Becenter R2	Bradykinin Becentor 82	Bradykinin Recentor R2	Bradykinin Receptor B2	Bradvkinin Becentor B2	Bradykinin Receptor B2	Tachykinin Receptor 1	Tachykinin Receptor 1	Tachykinin Receptor 1	Tachykuni Heceptor 1	Tachykinin Receptor	Tach die Deceptor 1	SCHWININ RECEDIOR	CI ESTRASA INDUSOR	Catalana annual C	Official sections of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of	C.1 Exterage inhibitor	C1 Esterase Inhibitor	Kallikrein 1 (renal/bancreas/salivary)	Kallikrein 1 (renal/bancreas/salivary)	Kalikrein 1 (renal/pancreas/salivary)	Kallikrein 1 (renal/pancreas/salivary)	Kallikrein 1 (renal/pancreas/salivary)	Kallikrein 1 (renal/pancreas/salivary)	Bradykinin Receptor B1	Bradykinin Receptor B1	Bradykinin Receptor B1	Bradykinin Heceptor B1	Bradykinin Receptor B2	Draducting December Do	Bradykinin Heceptor B2	Bradykinin Heceptor B2	Drawkinin December Do	Bradykinin Receptor B2	Brackinin Becetor Ro	Diadykinin Neceptol De	Brackinin December Do	DIADYAMIN MACERIOL DE													

## Table IX(2 of 2)

BDKRB2 AE104828	Exon3	-	BOKHB2 X3-2a	₩	AE104p55	785	TATTGCACAACCATCTGTCCC	AE104p56	817	Γ
188	+	-	BUKHB2 X3-2a	4	AE104p55	786	TATTGCACAACCATCTGTCCC	AE104p56	818	
AE10981	4	-	ACE2 x14a	TTTGAAAAGAACCACATGGC	AE109p27	787	AGTGGGATCTTTGGAGGAAAA	AETOONOR	0.00	I
AE109s2	-1	-	ACE2_x13a	CAGCTGTGTCACAAGTCCTCA	AE109031	788	ACATCTGGAACCCCTCAAAAG	AE100-22	600	Ţ
AE10983	3 Intron13	-	ACE2_x13a	CAGCTGTGTCACAAGTCCTCA	AE109031	789	ACATCTGGAACCCCTCAAAAG	AEtoposo	020	T
AE10934	t intron3	-	ACE2_x3a	TCATTCATGTCCTTGCCCTTA	AE109071	790	TOTTOAGOAAAATTOOATTOT	A 5100-72	128	T
AE 10985	4		ACE2_x3a	TCATTCATGTCCTTGCCCTTA	AE109p71	791	TOTTCAGCAAAATTTCCATTGTT	AE10072	270	T
AE109s6	-1	-	ACE2_x16a	GCACACAGGAAGACACACAA	AE109p19	792	CCTCCCCATGTCTCTATC	AE100020	620	Ţ
AE109s7	+	-	ACE2_x16a	GCACACAGGAAGAACACACAA	AE109p19	793	CCTCCCCATGTCTCTATC	AF109n20	920	T
AE110s1	+	0	PI4 X2a	GATCTGGAGCGACTGTTCTG	AE110p23	352	CACACTGATTACCTCTTCCGC	AE110m34	800	T
AE110s2	Exon2	0	P14 X2a	GATCTGGAGCGACTGTTCTG	AE110p23	795	CACACTGATTACCTCTTCCGC	AE110m24	020	T
AE11083	4	٥	P14 X3a	CTTTCAACATCCATTTGTGGG	AE110p27	796	ACTITIGGATGCCTCCAGTTTT	AF110n28	828	Τ
AE 11094	+	0	P14 X3a	CTTTCAACATCCATTTGTGGG	AE110p27	797	ACTITIGGATGCCTCCAGTTTT	AE110028	820	I
AE11085	+	•		CTACGCCATGCTTTCCCTG	AE110p19	798	CGGTGGTGTGGATTTAGCATA	AE110o20	830	Γ
AE110s6	4	•	PI4 X1.f2a	TTGGGGGAGAACTGGAGTAT	AE110p7	799	CCAACAGAGCAGGAAATGAAG	AE11008	831	Ι
AE110s7	4	٥	PI4 X1.12a	TEGGGGAGAACTGGAGTAT	AE110p7	800	CCAACAGAGCAGGAAATGAAG	AE11008	832	Γ
AE110s8	+	0	P14_X1.11a	AAAATTAGCTGGGTGTGGCT	AE110p3	801	TAAGTGACCTGCCCAAAGTTG	AE110p4	833	T
_	4	٥	P14 X1.11a	AAAATTAGCTGGGTGTGGCT	AE110p3	802	TAAGTGACCTGCCCAAAGTTG	AE11004	R34	Τ
$\neg$	4	0	XPNPEP2 X12a		AE100p47	1014	ACCCAAGAACCTGTCACTCCT	AE100548	000	Τ
		0	XPNPEP2 X13a		AE100p51	1015	GCAACTCCCIACTCCACACTG	AF100nE2	250	T
1	-	0	XPNPEP2 X13a	AGTTGAGAGGTAGAGGCAGCC	AE100p51	1016	GCAACTCCCTACTCCACACTG	AF100n52	200	Τ
_	4	°	XPNPEP2 X8a	_	AE100p31	1017	CTTACCCTTCTTGGTTCCCAC	AF100n32	1043	Τ
	-4	0	XPNPEP2 X21.14a		AE100p95	1018	CTCACCCTCTTCTTCCTCC	AE100n96	1044	T
_	4	0	XPNPEP2 X21.14a		AE100p95	1019	CTCACCCTCTCTTCTTCCTCC	AE100096	1045	Τ
J	4	0	XPNPEP2 X5a		AE100p19	1020	GAACCTAGTCCAGGTCCCAAG	AE100p20	1046	Γ
BOKHBI AE103810	4		U48231 X2.16a	CTCAGCCTCCTGTAGCTGAGA	AE103p27	1021	TGGTGTGTTCATGCAATTTCT	AE103p28	1047	Γ
DOKODA AFAMATA	+		U48231 X2.16a	CTCAGCCTCCTGTAGCTGAGA	AE103p27	1022	TGGTGTGTTCATGCAATTTCT	AE103p28	1048	Γ
7	+	7	U48231 X2.16a	CICAGCCTCCTGTAGCTGAGA	AE103p27	1023	TGGTGTTCATGCAATTTCT	AE103p28	1049	Γ
+	Exous	1	U48231 X2.16a	-+-	AE103p27	1024	TGGTGTTCATGCAATHCT	AE103p28	1050	Ī
+	4		U48231 X2.16a	-+	AE103p27	1025	TGGTGTGTTCATGCAATTTCT	AE103p28	1051	
DONNER ACTORSO	+	-	BUKHBZ X3.12a	-	AE104p55	1026	TATTGCACAACCATCTGTCCC	AE104p56	1052	
7	+.	-	BUKHEZ XI.IIa	_	AE104p83	1027	GAGCTACGCAAACATGGAAAT	AE104p84	1053	Ī
т	THE PARTY OF		DUNNEZ ALITE	_	AE104p83	1028	GAGCTACGCAAACATGGAAAT	AE104p84	1054	Γ
т	+	-	BUNNEZ ATITA		AE104p83	1029	GAGCTACGCAAACATGGAAAT	AE104p84	1055	Γ
7	+	1	BUNNEZ A3.1/a	CCCAGATCACCAAGCTGTAGA	AE104p75	1030	CTTTCCACTTTCTTCAGCG	AE104p78	1056	Ī
т	4	-	BOKHB2 X3:17a		AE104p75	1031	CTTTTCCACTTTCTTCAGCG	AE104p76	1057	
ŭ	4	-	BDK RB2 X3.17a		AE104p75	1032	CTTTCCACTTCTTTCAGCG	AE104076	1059	Τ
P14 AE110s10	4	•	P14 X4a	TCTCTTGCTGGCTTGGAGATA	AE110p31	1033	CAGGGTGTGGAATGTCCAG	AF110n32	1050	Ţ
1	4	٥	Pl4 X1.f1a	AAAATTAGCTGGGTGTGGCT	AE110p3	1034	TAAGTGACCTGCCCAAAGTTG	AE110nd	090	T
1	4	٥	Pl4 X1.f1a	AAAATTAGCTGGGTGTGGCT	AE110p3	1035	TAAGTGACCTGCCCAAAGTTG	AE110nd	1900	Τ
٦	intron4	-	TACR1_X4a	TGTCCCTCTTGTCTCACAGCT	AE106011	1036	CTCACCTGTCTCACCTTG	AE106=13	1001	Ţ
7	Intron3		TACR1_X3a	CCTCTCCTCCTCTGTTGCT	AE106015	1037	GTAGCTGCCAAACCTTGACTG	AETOENE	7901	T
ACE2 AE10988	Intron13	1	ACE2_X13a	CAGCTGTGTCACAAGTCCTCA	AE109031	1038	ACATCTGGAACCCCTCAAAAG	AETODOS	1000	T
AE10959	Intron6	-	ACE2 X8a	TAAGGCTCACTCAAAAAGGCA	AF109n59	1030	TTACACTTTCCCCTCCTTCT	AC100105	100	Ī
						2001	יייייייייייייייייייייייייייייייייייייי	AE1090ou	luco	٦

#### Table X (1 of 3)

SNP_ID	ORCHID_LEFT	ORCHID_LEFT (SEQ ID NO:)	ORCHID_RIGHT	ORCHID_RIGHT (SEQ ID NO:)	ORCHID_SNPIT	ORCHID_SNPIT (SEQ ID NO:)
AE100s1	TATCATTTGTGCCCTATGACCG	1066	CAGGGTCAGGGAGAAGGC	1154	CCTCATCGATGTCNGCCTGCTGTCTCC	1242
AE100s10	AAACTTCATCAGAGGTACCAAAG	1067	GAGGACATTTTGATTCAGACTCCTC	1155	GTGGTTTGCAAACCTTAGCATGCAC	1243
AE100s11	ATAGAATGACTTCCTCCAGAGGGA	1068	CAGCCTAACCCTGYACTGGG	1156	TGGAAGCCCAGNCCCCAGAGGT	1244
AE100s12	TCCAGAGGACTGGCCTG	1069	GAAGGCAGCCTAACCCTG	1157	AGCCCAGGCCCCAGAGGTYCTCCCA	1245
AE100s13	ATAGAATGACTTCCTCCAGAGGGA	1070	GCTCAGAAGGGGAGAATGTT	1158	AATGTTGAGAANGNCAGCCTAACCCTG	1246
AE100s14	N/A	N/A	N/A	N/A	N/A	N/A
AE100s15	ACCCTCTGTCTGCAG	1011	GATGGAGGGACAAGGGAG	1159	CCCGGSCTCTTCCTTCANGCNTTTCCT	1247
AE100s16	AAAGAAGGAAGGAAAGGAA	1072	GTGTAGGAATAGAAGAAGGGGTTATAGG	1160	AGAAAAGCTTGNCTCAGGCAGATCAGC	1248
AE100s17	N/A	N/A	N/A	N/A	N/A	N/A
AE100s18	AACACAGCAAGACCCCTCTCA	1073	GATCCCAGAGCATCTCTATGAGC	1161	TACCTAAATAAATAAAAGCCAG	1249
AE100s19	N/A	N/A	N/A	N/A	N/A	N/A
AE100s2	ATAGAATTTGCAGGGCAGGG	1074	GTATCTTTTGCAGTTCAACTCCCC	1162	GCAACAAGTCTCCTTTNCAGAACAGTC	1250
AE100s20	TACCACAACAGGGACTGG	1075	GATTCAGGTACTGGAGCTGCG	1163	AGACTTCACCTCTTGGCANCTTGGCTT	1251
AE100s21	N/A	N/A	N/A	N/A	N/A	N/A
AE100s22	N/A	N/A	N/A	N/A	N/A	N/A
AE100s23	TTTGCCTAAGGACACACAAATTT	1076	GAGGTGGGCTCAGGGACT	1164	CTGCATGTTGCTGAAGGGTGAAAGA	1252
AE100s24	CGCTATCTGATCTCCATCT	1077	CCGCACCTGGAGTTGGGG	1165	TINGAGCCTGTGGCTNCAACCAGACCT	1253
AE100s25	N/A	N/A	N/A	N/A	N/A	N/A
AE100s26 ·	N/A	N/A	N/A	N/A	N/A	N/A
AE100s27	ACAAGTAAGAGTTTGTTTGAGGAAAGG	1078	GAGCCCCAAAAAGTGTAAGTGA	1166	TTACCCTANGGCTGACCTNCCAGGAAC	1254
AE100s28	N/A	N/A	N/A	N/A	N/A	N/A
AE100s29	N/A	N/A	N/A	N/A	N/A	N/A
AE100s3	N/A	N/A	N/A	N/A	N/A	N/A
AE100s30	TATCTTTCAGTTGGCACCA	1079	CAATGGACAAGAGGGG	1167	TCACCTGGCTCCTCACCGAGATTCC	1255
AE100s4	TCCCTGCTGCTTCCCCGG	1080	AATATTTGTGCACTGATTTACCAGAATAG	1168	TATTTCAGNCCACTGACANGGCCTCAG	1256
AE100s5	N/A	N/A	N/A	N/A	N/A	N/A
AE100s6	TGTGTGCATGAGTGTGGTG	1081	CTTTGTCATTCCATACCTGTGAAA	1169	ACCTTCATAGAGGGTATAATAAAAG	1257
AE100s7	ATCCAGTAATGGCAAAGCCAG	1082	GTCAGCCTTAGGGTAACAGTTTTG	1170	AAGAGTTTGTTTGAGGAAAGGGTTT	1258
AE100s8	GCAAATCTCACGTCTGCTG	1083	CAGGTCTGGGGGCACAGTA	1171	GTAAAGGAGGTCTCNATNGCACAGGGG	1259
AE100s9	AAAACTAGGAAAGACAGAAAGCACAC	1084	TTTCAGAGGACTGGCAGGAG	1172	CACAGAGTAGAGAGNATTGCCACGAAA	1260
AE103s1	AACTTCTTTGCCTTCACTAACAGCT	1085	GATGAAGATATTGGAGCAAGACTTTTAG	1173	CCAGTAATTTATGTCTTTGTGGGCC	1261
AE103s10	N/A	N/A	N/A	N/A	N/A	N/A
AE103s11	TGGACTTGATGATGTTACCAAATT	1086	GACTCTGAGCCTCCTGCCTC	1174	ATCCTGAATTATCCAAGTGGGCCCT	1262
AE103s12	N/A	N/A	N/A	N/A	N/A	N/A
AE103s13	CCACCGAGTTTCTGGTAATTTG	1087	CTTTGAATAGACAAATGGAAGTGTARTAAGA	1175	CAGCAGGAACAAATAACAAGTATC	1263
AE103s14	TGTCATAGCAGCAGGAA	1088	CCTGGCAGTTAGCCTAGAAAGC	1176	ACAAGTATCRGGTAATGNCCTCTCTTA	1264
AE103s2	TGACAATGCTCCAGAAGCC	1089	CAACAGGACAAAAAGGTTCCC	1177	CTGGGACCTGCTGNACAGAGTGCTGCC	1265
AE103s3	ACTTTCTGGCGGAATTAAAACA	1090	ACCCCCAATCTACGGGA	1178	TGAACCAANANGCTTGGCTTTCTTATC	1266
AE103s4	N/A	N/A	N/A	N/A	N/A	N/A
AE103s5	N/A	N/A	N/A	N/A	N/A	N/A
AE103s6	TTCTGGGCAGAGAATATCTGGA	1001	CCACCAGGAAGATGCTGATG	1179	GAGCCCTCCTCTGCCGTGTCATCAA	1267
AE103s7	N/A	N/A	N/A	N/A	N/A	N/A
AE103s8	ATCTGAACATCACCGCCT	1092	GTAGTTGAAGAAGACGATCGC	1180	AGATCTGAACATCACCGCCTGCATC	1268
AE103s9	N/A	N/A	N/A	N/A	N/A	N/A
AE104s1	GAGAGCAATAAATGTCTGTTTTTTTGATAA	1093	CTCACCTGTGCTTGTG	1181	CACTGGGCAAATCNGCNGGGCTCCCCC	1269
AE104s10	GGTTGGGGCCTCAGGGTG	1094	GTGGCGGTGTGAAGCACC	1182	GTNGGAATGACAGGTNGAAGGGAAGCA	0661

#### Table X (2 of 3)

		ORCHID_LEFT (SEQ		ORCHID_RIGHT		ON UI OAS, BIENS GIROGO
SNP_ID	ORCHID LEFT	ID NO:)	ORCHID_RIGHT	(SEQ ID NO:)	ORCHID SNPIT	OKCHID_SNETT (SEC
AE104s11	TTGGATGTGAAATGCTTCCTG	1095	GCCCTATGCATGTGTAGATG	1183	TTACAACATAACAGCNCATTGAGTCTT	12/1
AF104s12	ATTITUTE CONTINUES AND TO A TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTA	1096	CGCCCTATGCATGTTA	1184	TAACAGCTCATTGAGTCTTKCACAG	1272
2104013	いましていることがあることで	1097	AAAAAAGAGGCTGTGTTTTTGTCA	1185	GGGCAGTCATTCAGCACCAGAGCAC	1273
AE104513	A CHORD A MONOTONIA	1098	AAGGTGGCCCAGTATGAGC	1186	CCCTAGAAGAGTGTGAAAAGGAATG	1274
\$104014	CAMOCAMOCAMOCAGO	1099	CAGTGATGGGGAATTCATTATCC	1187	ATTCCTTCACTCATNTATNAAACAAAA	1275
AETO4STO	CALCALOGATOCATOCATOCATOCATOCATOCATOCATOCATOCATOC	1100	しょう ないしょう しょうしょう しょうしょう しょうしょう しょうしょう しょうしょう しょうしょう しょうしょう しょう	1188	TACGTTGAGCGATGAGCCCCAGGTT	1276
AE10451/	GATGGAACAGATGAGAGAG	2011	A DO A DATE OF OUR DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE A DATE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE OF THE	1189	ACAGGGGTTGGGGATNGCNAAATACAC	1277
AE104818	AGAAGAAAGATGGTTAGATGGCA	1101		1190	GEGEGGCACGGAGTCCTCAC	1278
AE104s19	TAACTAGTGAACTGAGGAATCCCTTT	1102	OF CHARGO CONCOUNTY	1101	GTCAGGGGGCNCACCTGGGCGCGCG	1279
AE104s2	GAGAGCAATAAATGTCTGTTTTTTTGATAA	1103	CICACTIGICIACTIGIA	1101	つかしつからつつく * * * * * * * * * * * * * * * * * *	1280
AE104s20	TTTACACTCCCAGGGCTGAG	1104	CTCTTCCCCAGATCCACTGG	1192	TITIEMAGCCI I MANACCCI I CCITIC	1281
AE104s21	GGATTTCTTTGTAYGCCACGTAC	1105	CATACATCTCCGAAGAAACGG	1193	GCAGAAGCTGTCCTGTTTCCTGGGT	4021
AE104s22	N/A	N/A	N/A	N/A	N/A	N/A
AE104s23	AGAGCTGGAGTGGCGGCG	1106	GCAGGAGTGCAGAGCTCAG	1194	GAAGTGCCCAGGAGGCTGNTGACATCA	1282
AF104e24	N/A	N/A	N/A	N/A	N/A	N/A
AE104625	4/2	N/A	N/A	N/A	N/A	N/A
20000	COORDON ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION A	1107	GTTCTCCGTCCCTGCCCC	1195	CATTGCACCAAANCTGGATGGC	1283
AE104520	16AA1AGA11AAGA1AGAGAGAGAGAGAGAGAGAGAGAGA	1108	GAAAGAAGGAAGCCATCTCCA	1196	GCTTTCNGGTGGTGNCAGTGCCCAGTC	1284
AE104527	TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TOWN TO THE TO	W/W	A/N	N/A	N/A	N/A
AE104528	N/A	N/A	4/2	N/A	N/A	N/A
AE104529	N/A	1100		1197	GAGCGAAGGCTGGCTGAGGTCATG	1285
AE10483	TITGCAAGGGGAATC	1102	N/A	N/A	N/A	N/A
AE104s30	N/A	N/A	A/N	4/10	4/N	N/A
AE104s31	N/A	N/A	N/N	W/W	4/2	N/A
AE104s32	N/A	N/A	N/A	1100	ではいして つかかかかん なつかかつ ひかかかし タールフェンス	1286
AE104s33	TAGGGATACAATGGCTAGGAGCT	1110	GITIGGGACCCCATGITCIAI	1100	ACCIPCION AND ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPCION ACCIPION ACC	1287
AE104s34	ACACTGGTGCTTCACACCG	1111	GTACATGTGAGGCATCWTTACGC	1133	N/A	d/Z
AE104s35	N/A	N/A	N/A	N/A	UHUMUU UUU UU UU UU UU UU UU UU UU UU UU U	1288
AE104s36	CCCTTCTGCTGTCCATATCA	1112	CATCTTGAAGGAACTCAAAGACTCA	1200	ACCCACACACCCTACINGACCGICIC	1289
AE104s4	AGTGAGAGGCTTGGAGTGCA	1113	CTTTGGATGAAAAGAGGAAGCA	1201	AGGG1"IGCAGGGAGAINC IGGGATIGAGG	0000
AE10485	TGCAGGGTTGCAGGGAGA	1114	CAAGAGAGGCGTCTTTGGAT	1202	GCTGGGATGANGYCTGGGGTGCTGCCT	1261
AE104s6	GGCTCACACTGTGGAATGTC	1115	CAAAGAGCCCTGCCCGA	1203	GTTCTCTGGAGAAAAACTGTGCTG	1671
AE104s7	AACTGTGGCCCAGAGGGT	1116	AACCCCTTACCCACCAGC	1204	CCCCCTCTCCAAGTCTNTGTCCCACAA	1292
AE10488	ATGTACGTAGCACCCTTTGCTTT	1117	GGAGACCAAGGTTCCAGCTC	1205	GAAGAGGAACTGAGGCAGGGACAG	1293
AE10489	TATTTCTAGACCTCAGTGTCTTTTCCTTATAG	1118	GAAGTCGTTGTGAGGGTTAAAGG	1206	AAGGGTGCTACGTANATNTGAGGCATC	1294
AE105s1	GAGAGGACTCTGAAGGGGG	1119	AGGTCTTCACCTGCTCTGCA	1207	CCCAGCGCTGGGGAAAGAAGGACA	1295
AE105s2	ATTGTGACAGAGGGTGGGG	1120	CAAACTCAGATTGTGGGAGAGC	1208	GAGATGCGGTAGGAAGACTGTTAAG	1296
AE105e3	N/A	N/A	N/A	N/A	N/A	N/A
AE105e4	CCCBACCCCAA	1121	TTGAGTTGGTTCGCCAA	1209	AAGCTGGAANCCTCNAGGATGGGTTCA	1297
AE10565	いたかんしていることがある。	1122	GATGCTGAATGGGGAAAAGG	1210	AAGCTCTACCACGCCTTCTCAG	1298
201025	ついていたいしいできたものはいかす	1123	CATATACTCGCCCCATGAAGAC	1211	GGAACTTGTNCTNCTGGTCCCAGAGCA	1299
AE106e1	TATORAGOCAC	1124	CACAACGAATGGTACTACGGC	1212	TACTGGCGAAGACAGCGGCGATGGG	1300
AE106e2	ATGGTCTCTGTGGTTGAGTAGTAGC	1125	CATCATACATCCCCTCCAGC	1213	CCAGCAGGAGCCAGGACCCA	1301
AE10663	AMACCTRACACAMATHTATACC	1126	CTACCACGAGCAAGTCTCTG	1214	CCAAGCGCAAGGTGAGCAGGGG	1302
A51064	TGCAGAATTCATCTTGAAATGA	1127	CTGTKTGACTCAAACCAAATCACT	1215	AGGTCGGACCANCTTTTCCCAA	1303
ACTOOR S	A & & & & CONCRETE CONTRACTOR & & &	1128	TCAAAAATCTCAATTCTTCCCTATCT	1216	TCCCTATCTTTGCNACNCTNATGCTGT	1304
AELUGES	THE THE CONTRACTOR OF THE THE THE THE THE THE THE THE THE THE	1129	CATGGAAATTCCCTTCATCTG	1217	ACCCATACTGACCCTTTTNGCAAGTCC	1305
AETOOSO	111 COUNTY CONTROLL COUNTY	1130	CCCACGAGGAGCCCAG	1218	AGAGCAGTTNGAGGTCAGGTNCAGGGA	1306

### Table X (3 of 3)

		ORCHID LEFT (SEQ	THESTA CINCAC	(SEC ID NO:)	ORCHID_SNPIT	ORCHID_SNPIT (SEQ ID NO:)
SNP_ID	ORCKID_LEFT	TON OT			N/N	A/N
AE106s8	N/A	N/A	N/A	N/A	U/N	8778
AF10659	N/N	N/A	N/A	N/A	N/A	A/N
	つけないはなっていつからはくいっているというできる	1131	ACACACAGCATGAAGTCTGTCAC	1219	CAAAATCCTGCCTAATGATGAGTGC	1307
AE10/S1	GITCHAGICICALITICAGAIGATC	1132	つようではいつごうかいし	1220	TCCCTTGNACRCAGGAGTCCCCATCCC	1308
AE10/82	AGCATCGAACCAGAAT IGIATG	1133	Camacaamenenegamecamec	1221	GCTGTGAAGNTCGNGGAGTTGCCCACC	1309
AE10783	CUGCIGAIACCAICACAGAIG	1134	GGGAGAAAAGGGCTGCA	1222	AAGGCRGGGATGGGGACTCCTG	1310
AE10784	ATCGAACCAGAATTGTATGTGG	1136	でからいのはいつないこのは出出しつ	1223	TGNGGCCACCCCAGCTGTGTCA	1311
AE107s5	ACCTGGACCCACTCGGCT	1135	COLOGOROGO	1224	ATGTGTGTCACGTTCTGCCATCACC	1312
AE107s6	CCAGTAAATCAAATGIGCATCC	1137	CA A THICA THE THINTH TO A CHOCK CACHOO	1225	ATCTGGAACTTATAGTNTTGAAAGAA	1313
AE10981	AATAGCTTATCCAATAAGGAATAGGTTACTTT	1120	SASTE A STATE OF SACRET A A GAGA	1226	GAGGGTTCCAGANGTACNTATATTTA	1314
AE109s2	GGGGTTCAGGGCCTTTTT	1136	OCHUR ACTURO CONTRA CHOC	1227	AAGTAGACAAGGAATGGGTGTGAAA	1315
AE109s3	TGGGGCCAAAGGAGACTAG	1139	GC1GAAAGACCAGAACAAGAA11C	0000	TO A THE A CHANTMAN A A NITT A CIT A CIT	1316
AE109s4	GTGTTGAAACACACATATCTGCAAT	1140	TGGAAAGTTTGTAACCCAGATAATC	0771	CATCAL CACACACACACACACACACACACACACACACACACA	1317
AE109s5	GTGTTCAACTGCAAATTAAAGATAAAACA	1141	ACATGGCAAAGAAGTAAATTGCTG		GAAATTTTGCTGAAGAATGCTAA	1319
AE109s6	AACTCAAATCAAGATTATTCCCCTG	1142	GTTACCAAATACAACAACAATAACCAGTATT		CACATGTAAATGACTCAGAATAATG	0101
AE109s7	CCCTCACCCTTAGATGAAAGTAAAA	1143	TTTGAAACCAAGAATCTCCTTTAATTT	1231	TTCAGTTCTAGGAATNATATCAGACAC	1319
AE109e8	N/A	N/A	N/A	N/A	N/A	N/A
0000	かっているのかのなりなるのかったのかった。	1144	TGCCTCCTGCTCATTTG	1232	CTTGGTAANAAGCCCCATNAATTCTTC	1320
AE10989	AGG LCACI CAGAGG COM.	N/N	A/N	N/A	N/A	N/A
AE110s1	N/A	W/N	いつかつかっているのではない	1233	GGNTGGCACCGAGGNTGCAGCAGCCAC	1321
AE110s10	CACCTTGGACGTGGATGAG	1140	Company (Concentration of the Concentration of the	1234	APPOTUTOR CONCERNO A TORGO DE CARACA	1322
AE110s11	CACCTCCTGCACACTCTCA	1146	CATGGTCATTCAGGAATTTG	2001	A A COUNTY OF CANADA TO A COUNTY OF THE A PARTY OF CANADA TO A COUNTY OF THE A PARTY OF CANADA TO A COUNTY OF THE A PARTY OF CANADA TO A COUNTY OF THE A PARTY OF CANADA TO A COUNTY OF THE A PARTY OF CANADA TO A COUNTY OF THE A PARTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA TO A COUNTY OF CANADA	1323
AE110s12	AGATTTGGGGGAGAAACTGG	1147	CAGTAGAACTGGTCTTTTGTTTGTTACC	5551	TALCITICATOR CONTROLL THE TALCET CONTROLL THE TALCET CONTROLL CONTROLL THE TALCET CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CONTROLL CO	1324
AE110s2	CTGTACCTTCTTTCATCTTCCCTT	1148	GCAGCATCATGGGCACCC	1230	CCGGACTGIGIGITCICATCAGG	1335
AE110s3	AAGGAGGCTCTGCCCAG	1149	GATGCAACTCTAGCTTCTTGTAAAATT	1237	GATCCTGGCTTGTTCANTANTCTAATG	1323
AF110s4	W/W	N/A	N/A	N/A	N/A	N/A
AE11085	CTTATCAACGACCACGTCAAGAA	1150	GATTTAGCATATACCAATGATCTGACTCT	1238	GAGGGAAGATTGTGGATTTGGTCAG	1326
AF110c6	GTCAAACTAAATGGCTGAAAGTGG	1151	TTTCAGATGAGTTGATTTCATTAGTGC	1239	AGACCCTAAAATAAACTCTGAGGAT	1327
AP110e7	ACCCUCAAACTAAATGGCTGAAA	1152	CACTTGTCTTTCAGATGAGTTGATTTC	1240	TAAACCATATAAAGCACTCCACAGA	1328
AF110cB	ACADACTICACACTATICACTATICACA	1153	CTGTAGAGGTCAGTAGAACTGGTCTTTG	1241	TATGAAACGNGTACCANTTCTATCCCC	1329
AE11050	d/N	N/A	N/A	N/A	N/A	N/A

## Table XI (1 of 3)

	Programme and Control	(SEO ID NO:)	GBS_RIGHT	(SEQ ID NO:)
SNP_ID	T. Fart Cop.	7.000	中本の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の中の	1451
AE100s1	TGTAAAACGACGGCCAGTAGTTCCTCCTCCTCCTCACT	1330	CAGGAAACAGCTATGACCAGCTCTGGGGGTCTGTGTT	1452
AE100s10	TGTAAAACGACGCCAGTGGCATTCACAGGTGATTCAGT	1331	CAGGAAACACCIATGACCCAGGCAAGCAAATCATAT	1453
AE100s11	TGTAAAACGACGCCAGTTTCTGGGCTTTTACCCTCTCTC	1332	CAGGAACAGCTATGACCAGGTCTGAGCAGACATCCA	27.5
AE100s12	TGTAAAACGACGAGTTTCTGGGCTTTACCCTCTCTC	1333	CAGGAAACAGCTATGACCAGGTCTGAGCAGACATCCA	#C#T
AF100c13	TGTAAAACGACGGCCAGTCCAGGTGCAGGATTAACAGAC	1334	CAGGAAACAGCTATGACCAGGTCTGAGCAGAGACATCCA	1455
100014	#CHANA & & CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTROLL STATE OF THE CANADA CONTR	1335	CAGGAAACAGCTATGACCATGCACATACCACAGAGGAGG	1456
100514	TO TOWN A A A CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL	1336	CAGGAAACAGCTATGACCATGCACATACCACAGAGGAGG	1457
AE100515	していたがあれているというないのできないのできない。	1337	CAGGAAACAGCTATGACCCAAGCTAAGGAAAAGCCATACC	1458
AE100816	TOTAMANCANCOCCAGICAGICAGAICATOCAGAICA	1338	CAGGAAACAGCTATGACCTGTGCTCTCTGAAGTCTGGT	1459
AE100S1/	Telahaktektektektektektektektektektektektektek	1330	CACCAAACACTATGACCATAGCGATGTTGTTGGACTGG	1460
AE100s18	TGTAAAACGACGCCAGTTATCCAGGTATGGTGGT	1340	CACCAAACACAAACCAACCAAACCCACCT	1461
AE100s19	TGTAAAACGACGGCCAGTCAGAGGGAAGCACGTGATG	2000	CACCAAGCCCAAGCCCAAGCCCAAGCCCAAG	1462
AE100s2	TGTAAAACGACGCCAGTTGTAAAGCCCTTTGCAGAAGT	1341	CASSAMACASCIALGASCOCTICITATION DO CONTROL ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR ACTOR A	1463
AE100s20	TGTAAAACGACGGCCAGTCTCTGAAAAGCCCCAGAGAAT	1342	いたのでは、これには、これには、これには、これには、これには、これには、これには、これに	1464
AE100s21	TGTAAAACGACGCCCAGTGAGGCTCCAGACTCTCCTGTT	1343	CAGGAAACAGCIAIGACCGAAGCAGCIGIAGCAGGIGIGI	1465
AE100s22	TGTAAAACGACGCCAGTCATTGCCTAGAAACCTTTGCA	1344	CAGGAAACAGCTATGACCATTGCTCTCTGGGGTTTTGT	1466
AE100s23	TGTAAAACGACGCCAGTAGCCACAGCTACAATGCTGTT	1345	CAGGAAACAGCTATGACCAAAACCCCAGAGGCAAGTGTCT	1467
AE100s24	TGTAAAACGACGGCCAGTCTGCCGTCAACACAGAACTCT	1346	CAGGAAACAGCTATGACCGAACTTGTCCACGATCTCTGC	1407
AE100s25	TGTAAAACGACGCCAGTAGAAGAACAGTTCTCCTCCGG	1347	CAGGAAACAGCTATGACCCCATGTGAACTCGTGAGCTTT	1468
AE100s26	TGTAAAACGACGGCCAGTCATGCCTTGCCTTGTACTTTC	1348	CAGGAAACAGCTATGACCGGCAACTCCCTACTCCACACT	1469
AE100s27	TGTAAAACGACGGCCAGTATGGAACACAGAGGGGTTAGG	1349	CAGGAAACAGCTATGACCGTCTGCAAATCCACACTCACA	14/0
AF100s28	TGTAAAACGACGCCAGTGGGTTGTATACCACACCCTGG	1350	CAGGAAACAGCTATGACCACAGCCAAATTCCTATGGCTT	1471
AE100s29	TGTAAAACGACGGCCAGTCGAGATAGGAAAGCCAGCTAG	1351	CAGGAAACAGCTATGACCGTTCTCCAACCTCTGGTAGGG	1472
AE100s3	TGTAAAACGACGCCAGTCACTTGTGGAAAGCACACAGA	1352	CAGGAAACAGCTATGACCTGTCAGTGGCCTGAAATATCC	1473
AE100s30	TGTAAAACGACGGCCAGTAGGAAATTTGAGGCCATCACT	1353	CAGGAAACAGCTATGACCCCTTCTTACCAAGGTCCAT	1474
AE100s4	TGTAAAACGACGGCCAGTAGCAGTCAAGATCCCTTCCAT	1354	CAGGAAACAGCTATGACCGTTTCCTGAACACCTCTGGCT	1475
AE100e5	TGTAAAACGACGCCAGTGAAAGAGCCCTCCTCTCTC	1355	CAGGAAACAGCTATGACCTTGCAATGCGGTAGTCTTAAA	1476
AE100s6	TGTAAAACGACGGCCAGTCAAGGTGGACAGTCTTCGGTA	1356	CAGGAAACAGCTATGACCCTGCTGGCATTCCTCACTTAC	1477
AE100s7	TGTAAAACGACGGCCAGTTCCTCATAGCAGCCCTATTGA	1357	CAGGAAACAGCTATGACCGGACGCCAGATACTTTCTCCT	1478
AE10058	TGTAAAACGACGCCAGTATCCGAAGACAGGGAGTTCAT	1358	CAGGAAACAGCTATGACCCTGTTCTTCACTGCCTTGGTC	1479
AE100s9	TGTAAAACGACGCCAGTATCCGAAGACAGGGAGTTCAT	1359	CAGGAAACAGCTATGACCTGGGGAGTAGGTGTCTCTCAC	1480
AE103s1	TGTAAAACGACGGCCAGTTCTTTGCCTTCCTGGAATTCT	1360	CAGGAAACAGCTATGACCTCAATGCTGTTTTAATTCCGC	1481
AE103810	TGTAAAACGACGGCCAGTCGTCCAGATCTGAACATCAC	1361	CAGGAAACAGCTATGACCGACTGCTTGCACCTGGAATAA	1482
AE103s11	TGTAAAACGACGCCAGTGAACCAAGAAGCTTGCCTTTC	1362	CAGGAAACAGCTATGACCCTAAAATCTGTTTCCCTGGGCT	1483
AE103s12	TGTAAAACGACGGCCAGTAACTTCCCAGACTCAAGGGAT	1363	CAGGAAACAGCTATGACCTCCCTGTATTCCTGGCAGTTA	1484
AE103s13	TGTAAAACGACGGCCAGTCAAGTGATCCTCCACTTTGGT	1364	CAGGAAACAGCTATGACCTGGTGTGTTCATGCAATTTCT	1485
AE103s14	TGTAAAACGACGCCAGTCCTCCACTTTGGTCTCCCATA	1365	CAGGAAACAGCTATGACCTGGTGTGTTCATGCAATTTCT	1486
AE10382	TGTAAAACGACGGCCAGTGCTGTAGTCTGCCACTTCCTG	1366	CAGGAAACAGCTATGACCGATATTCTCTGCCCAGAAGGG	148/
AE10383	TGTAAAACGACGGCCAGTAGGACCAAGGTCTGGGAACT	1367	CAGGAAACAGCTATGACCCTGAATTCCTCTGGCCTCTG	1488
AE10384	TGTAAAACGACGGCCAGTGCCTGGAACACAGACCATTAA	1368	CAGGAAACAGCTATGACCAAGGCAGATGGATCAGATGAA	1489
AE10385	TGTAAAACGACGGCCAGTAACTTCCCAGACTCAAGGGAT	1369	CAGGAAACAGCTATGACCTCCCTGTATTCCTGGCAGTTA	1490
AE10386	TGTAAAACGACGGCCAGTCCCTTCTGGGCAGAGAATATC	1370	CAGGAAACAGCTATGACCAGTGGTAGGAGGAAACCCAGA	1491
AE10387	TGTAAAACGACGGCCAGTCCCTTCTGGGCAGAGAATATC	1371	CAGGAAACAGCTATGACCAGTAGGAGGAAACCCAGA	1492
AE10388	TGTAAAACGACGGCCAGTGCATCTTCCTGGTGGTGG	1372	CAGGAAACAGCTATGACCCTGTGGTCTTGCTATCCTTCG	1493
AE10389	TGTAAAACGACGAGTCGTCCCAGATCTGAACATCAC	1373	CAGGAAACAGCTATGACCAGAATTCCAGGAAGGCAAAGA	1494
AE104s1	TGTAAAACGACGGCCAGTGTGGTCTTTAAAGGAGGCCCTG	1374	CAGGAAACAGCTATGACCGACTTTTGCACCAACCGAATA	1495
AE104810	TGTAAAACGACGGCCAGTGGTCTCAGCACTGTGATCCTC	1375	CAGGAAACAGCTATGACCGTGCTACGTACATGTGAGGCA	1496

## Table XI (2 of 3)

GBS_LEFT	F	(SEQ ID NO:)	GBS_RIGHT	(SEQ ID NO:)
TGTAAAACGACGCCAGTTCGGG	CGACGCCAGTTCGGGAGTTGTAACAAATGCT	1376	CAGGAAACAGCTATGACCGAGGCTGTGTTTTGTCACACA	1497
	GCAAAAACCTCATCCA	1377	CAGGAAACAGCTATGACCGAGGCTGTGTTTTGTCACACA	1498
TETTATATACCACTCACTCATCTACACCATGCATAGGGC	PACACCATGCATAGGGC	1378	CAGGAAACAGCTATGACCTGGAGGAAGAAAACAGGTGAA	1499
TOTALA A A CORACTOR OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF	TCTCCAGTTCTAGCCC	1379	CAGGAAACAGCTATGACCATTTCTAATCGGTCTTGCCCA	1500
TGTAAAACGACGGCCAGTAATAAAAGAGGTGCTGACCCAC	AAGAGGTGCTGACCCAC	1380	CAGGAAACAGCTATGACCCTAGAATCATAGGCGCAGCAG	1501
TGTAAAACGACGCCAGTCCACCATGACCCAAGTTTAT	CATGACCCAAGTTTAT	1381	CAGGAAACAGCTATGACCGCCACTTGTTTCATACTCCCA	1502
TGTAAAACGACGGCCAGTGAGGAATCCCTTTGACTCACC	ATCCCTTTGACTCACC	1382	CAGGAAACAGCTATGACCGACTGAGCAATGTCTGGCTTC	1503
TGTAAAACGACGGCCAGTTGGTTCCTTCAACTGTTGTCC	PCCTTCAACTGTTGTCC	1383	CAGGAAACAGCTATGACCACAAACGTCCATTGAGTCAGG	1504
TGTAAAACGACGGCCAGTGTGGTCTTTAAAAGGAGGCCTG	CTTTAAAGGAGGCCTG	1384	CAGGAAACAGCTATGACCGACTTTTGCACCGAACGGAATA	1505
TGTAAAACGACGCCAGTAGATGTATGGCGGAGGTTTCT	STATEGEGGAGGTTTET	1385	CAGGAAACAGCTATGACCGCCACCCATAAACTGATCTGA	1506
TGTAAAACGACGGCCAGTTTTTGGATGTAAACAGTGGGC	GATGTAAACAGTGGGC	1386	CAGGAAACAGCTATGACCAATGTTTTGAAAGTCCCTGCC	1507
TGTAAAACGACGGCCAGTGGAAGCCCCATGTGAATAAAT	SCCCCATGTGAATAAAT	1387	CAGGAAACAGCTATGACCTTGAGCAAAACTGAGAAAGCC	1508
TGTAAAACGACGGCCAGTACTTCAGTCGCTCCCTGGTAC	PAGTCGCTCCCTGGTAC	1388	CAGGAAACAGCTATGACCACATGGAAATCTTCGCAAGAG	1509
TGTAAAACGACGGCCAGTTCTCCATCTGAATGGGTTCTG	CATCTGAATGGGTTCTG	1389	CAGGAAACAGCTATGACCACGAGATGCAGAAGTTCAAGG	1510
TGTAAAACGACGGCCAGTAAGCAACTGTCCCTCAATCCT	AACTGTCCCTCAATCCT	1390	CAGGAAACAGCTATGACCTAATCACACAGATCGCCTCCT	1511
TGTAAAACGACGCCAGTGACCTCCTTGTCCATCAGTGA	CCTTGTCCATCAGTGA	1391	CAGGAAACAGCTATGACCCCAAGGACTCCAAAATCACAA	1512
TGTAAAACGACGGCCAGTCCCTCACAACGACTTCATGTT	CACAACGACTTCATGTT	1392	CAGGAAACAGCTATGACCTCACTGATGGACAAGGAGGTC	1513
TGTAAAACGACGGCCAGTTTCTCTCTCAAATGCTCCTGTG	CTCCAAATGCTCCTGTG	1393	CAGGAAACAGCTATGACCGGGTGATATGGACAGCAGAAG	1514
TGTAAAACGACGGCCAGTGGTCTCAGCACTGTGATCCTC	rCAGCACTGTGATCCTC	1394	CAGGAAACAGCTATGACCGTGCTACGTGTGTGAGGCA	1515
TGTAAAACGACGGCCAGTGCAGGCAAATACCACTTTCAA	SCAAATACCACTTTCAA	1395	CAGGAAACAGCTATGACCTTGGATGAAAAAGAGGAAGCA	1516
TGTAAAACGACGGCCAGTCCCAATACTGATTCTGCTCCA	ATACTGATTCTGCTCCA	1396	CAGGAAACAGCTATGACCGGAACTCAAAGACTCAAGTGGG	1517
TGTAAAACGACGGCCAGTTGGTTCCTTCAACTGTTGTCC	PCCTTCAACTGTTGTCC	1397	CAGGAAACAGCTATGACCTTGAGTCAGGGACTCAGCAGT	1518
TGTAAAACGACGCCAGTCCTGACTCAATGGACGTTTGT	ACTCAATGGACGTTTGT	1398	CAGGAAACAGCTATGACCAATCCATATTCACACCAAGCG	1519
TGTAAAACGACGGCCAGTCCTGACTCAATGGACGTTTGT	ACTCAATGGACGTTTGT	1399	CAGGAAACAGCTATGACCAATCCATATTCACACCCAAGCG	1520
TGTAAAACGACGGCCAGTATCTTCCTCTCGCCTCATCACA	rccrcrcacca	1400	CAGGAAACAGCTATGCACAACCAICTGTCCC	1521
TGTAAAACGACGGCCAGTTCAGACTTTGAAGACATGGCC	ACTTTGAAGACATGGCC	1401	CAGGAAACAGCTATGGCACAACCATCTGTCCC	1522
TGTAAAACGACGGCCAGTTGTACGTAGCACCCTTTGCTT	CGTAGCACCCTTTGCTT	1402	CAGGAAACAGCTATGACCTCACTGATGGACAAGGAGGTC	1523
TGTAAAACGACGGCCAGTGAATCCCAAAGAGATTGAGGC	CCCAAAGAGATTGAGGC	1403	CAGGAAACAGCTATGACCACAAGCTTGGAGGAAGCATTT	1524
TGTAAAACGACGGCCAGTGAATCCCCAAAGAGATTGAGGC	CCCAAAGAGATTGAGGC	1404	CAGGAAACAGCTATGACCGACATTCCACAGTTGTGAGCC	1525
TGTAAAACGACGGCCAGTTGCTTCCTCTTTTTCATCCAA	TCCTCTTTTCATCCAA	1405	CAGGAAACAGCTATGACCCAGCCTACAGGAAGTGGGAG	1520
TGTAAAACGACGCCAGTGGACCCACAAATCAATGCTT	CCACAAATCAATGCTT	1406	CAGGAAACAGCTATGACCATACCAACATT	1520
TGTAAAACGACCCAGTTGCTCCACGGAGCTATTTCTA	CCACGGAGCTATTTCTA	1407	CAGGAAACAGCTATGACCCCAAAGACTCAAGTGGGAACGA	1520
TGTAAAACGACGCCAGTGTGGGAATGACAGGTGGAAG	GAATGACAGGTGGAAG	1408	CAGGAACAGCTATGACCGGGTGATATGGACAGCAGAG	1530
TGTAAAACGACGCCAGTAGAGCATCCTCTTACCCCA	CATCCTCTTACCCCA	1409	CAGGAAACACCTATGACCACTGTACCTGCCCGGTAGTTTTTTTT	1531
TGTAAAACGACGGCCAGTAAGCCTGGAAGCTTAGGTCTG	CTGGAAGCTTAGGTCTG	1410	CAGGAAACAGCTATGACCTTTGATGCGGGGTAGTGTTAGTGTGTGT	1532
TGTAAAACGACGCCAGTTATTTTCTAGGTGGGGCAGCT	TTCTAGGTGGGGCAGCT	1411	CAGGAMACAGCIAIGACCIACCCCCCCCCCCCCCCCCCCC	1533
TGTAAAACGACGCCAGTGAACCACAGGATAGAGCCTCC	CACAGGATAGAGCCTCC	1412	(本はなみなんななどにおけられていることによっていることになっている。	1534
TGTAAAACGACGGCCAGTACTACCCAGCTCCCAACAGAT	CCCAGCTCCCAACAGT	1413	一人がものからなっていました。 こうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょう	1535
TGTAAAACGACGGCCAGTGGACCCAGATCTTCAGGTTTTC	CCAGATCTTCAGGTTTC	1414	CACCACACTERIOR CONTRACATOR TAGGOCO ACACACACA	1536
TGTAAACGACGGCCAGTAGAGTGGCCAATCTTCACTT	TGCCARICITCCACII	2171	CACCAAACCTATCACCTCCCCACAAAATATGGAATC	1537
TGTAAAACGACGCCAGTGGCCATGGGGGGGTCATCTCTAC	TGGGGAGTCATCTCTAC	1410		1538
TGTAAAACGACGGCCAGTCAGATCTGGGTTCCAAAGACA	TCTGGGTTCCAAAGACA	1417	CAGGAACAGCTATGACCCTGATCTACTTCCCCCCTC	1539
TGTAAAACGACGCCAGTCTTTTGTTCACCCTGTCAAGC	TGTTCACCCTGTCAAGC	1418	CAGGAACTATGACTTGCAAAAAGGGTAGTATGG	1540
TGTAAAACGACGGCCAGTGGCTCCAGGAAAATGAGTCTT	CCAGGAAATGAGTCTT	1419	CAGGAAACAGC TATGACCTCTGGGAACCATCAGGAACGAACGAACAGAACAGAACAACAACAACAACAAC	1541
A A A A B C A C C C C C A C A A A A B C E		- 7	CAGGAAACAGCIAIGACICCAACIGCICIII	

## Table XI (3 of 3)

		THE STORY		GBS RIGHT
SNP_ID	CBS_LEPT	(SEQ ID NO:)	GBS_RIGHT	(SEQ ID NO:)
AE106s8	TGTAAAACGACGACTATGGATTTCTGGTTCCCTTTG	1422	CAGGAAACAGCTATGACCCTTCTTCCTCCTGCCCTACAT	1543
AE106s9	TGTAAAACGACGCCAGTCTTTAAGAGCAAGCGAAGTGG	1423	CAGGAAACAGCTATGACCCACACTATGGGCCAGTGAGAT	1544
AE107s1	TGTAAAACGACGGCCAGTAATTGTATGTGGGGGCAGACT	1424	CAGGAAACAGCTATGACCGTGAAGCAGATGCCTGGTTAG	1545
AE107s2	TGTAAAACGACGACCAGTCCTGACAGAGCCTGATAC	1425	CAGGAAACAGCTATGACCATTTTGAGGTCCACACACTGG	1546
AE107s3	TGTAAAACGACGGCCAGTGCCCAGTTTGTTCATGTCAGT	1426	CAGGAAACAGCTATGACCGGAAATGAGACTACGAACCCG	1547
AE107s4	TGTAAAACGACGCCAGTCCTGACAGAGCCTGCTGATAC	1427	CAGGAAACAGCTATGACCAAGTCTGTCACCTTCTGGACG	1548
AE107s5	TGTAAAACGACCCAGTCCCTACCCCCAGTAAAATCAA	1428	CAGGAAACAGCTATGACCACCTCTCAGCCTCAGACCTTC	1549
AE107s6	TGTAAAACGACGAGTGCCGTCAGAGTGCTGTCTTAT	1429	CAGGAAACAGCTATGACCCTGTTTGTCTGCACCTGTCAC	1550
AE109s1	TGTAAAACGACGGCCAGTTGACGAGAGTCAATTGAAAGGA	1430	CAGGAAACAGCTATGACCATGCAGACCAAAGCATCAAAG	1551
AE109s2	TGTAAAACGACGCCAGTCAAAGTAGTTGAGCAGTGGCC	1431	CAGGAAACAGCTATGACCGACCATACAACAATTGGGTGG	1552
AE109s3	TGTAAAACGACGAGTAAATGGCAGCTGTCACCATAG	1432	CAGGAAACAGCTATGACCACATGAATGTAAGGCCACTGC	1553
AE109s4	TGTAAAACGACGGCCAGTTCTGCAGAGAAAATAAACCACTGA	1433	CAGGAAACAGCTATGACCTCTTCAGCAAAATTTCCATTGT	1554
AE109s5	TGTAAAACGACGGCCAGTGCATTCTTGTGGATTATCTGGG	1434	CAGGAAACAGCTATGACCTCGACAGTGGGGAAACTTAAC	1555
AE109s6	TGTAAAACGACGGCCAGTTTGCCCCATAGTGGTAACTTGC	1435	CAGGAAACAGCTATGACCCGAGTGGCTAATTTGAAACCA	1556
AE109s7	TGTAAAACGACGACCAGTGCACACAGGAAGAACACACAA	1436	CAGGAAACAGCTATGACCCTCCCCCATGTCTCTATCC	1557
AE109s8	TGTAAAACGACGGCCAGTGTGCATCTGTGTGTGTT	1437	CAGGAAACAGCTATGACCACATGAATGTAAGGCCACTGC	1558
AE109s9	TGTAAAACGACGGCCAGTTGCTTTCAAAATGCGATTTCT	1438	CAGGAAACAGCTATGACCCTTTCTTCCTGGGCTTTTTCAG	1559
AE110s1	TGTAAAACGACCAGTCAGGCATGTCAGGTTTTGAAT	1439	CAGGAAACAGCTATGACCTTGTAATCCATCCGTAGCACC	1560
AE110s10	TGTAAAACGACGCCAGTCTTGCTGTTTATCCCCAAGA	1440	CAGGAAACAGCTATGACCCTCCTGCTTGGAACAGATGAG	1561
AE110s11	TGTAAAACGACGAGTAAGAACATCTTTTTCTCCCCG	1441	CAGGAAACAGCTATGACCATCCACAATCTTCCCTCGAGT	1562
AE110s12	TGTAAAACGACGCCAGTGCAGGTCATGGAAGTGGATTA	1442	CAGGAAACAGCTATGACCAGCCATTTAGTTTGACCCTCC	1563
AE110s2	TGTAAAACGACGAGTGATCTGGAGCGACTGTTTCTG	1443	CAGGAAACAGCTATGACCTTTGCCTTGGTTAGGGAGAAT	1564
AE110s3	TGTAAAACGACGACCAGTCTTTCAACATCCATTTGTGGG	1444	CAGGAAACAGCTATGACCTGACGACTTACTTTGGATGCC	1565
AE110s4	TGTAAAACGACGCCAGTCACAGGAAGCAACCTCTGAAG	1445	CAGGAAACAGCTATGACCGGGGCCAGAAATGGAGAACTT	1566
AE110s5	TGTAAAACGACGCCAGTCCTTGCAAAATTCCTGAATGA	1446	CAGGAAACAGCTATGACCAGGGTTGCTCAACCCTATCAG	1567
AE110s6	TGTAAAACGACGCCAGTCCTTGTCTGTACGGGGTAACA	1447	CAGGAAACAGCTATGACCCCAACAGAGCAGGAAATGAAG	1568
AE110s7	TGTAAAACGACGACAGTAACGGGTACCAATTCTATCCC	1448	CAGGAAACAGCTATGACCCTAGCACATATCCCAGCCAGA	1569
AE110s8	TGTAAAACGACGCCAGTGATTTTGGGTGGATAGAAGCC	1449	CAGGAAACAGCTATGACCGGTTTACAAACCACTTTCAGCC	1570
AE110s9	TGTAAAACGACGGCCAGTGAAGGGTGCATGCCTGTAGT	1450	CAGGAAACAGCTATGACCTAAGTGACCTGCCCAAAGTTG	1571

Table XII
Sample Description

		Cases			Controls		
Race	Angioedema	Angioedema-like	Total	Angioedema	Angioedema-like	Total	Total
Blacks		10	21	32	19	51	72
Caucasians	12	22	34	38	69	107	141
Other	0	-		0	1		2
Total	23	33	99	70	68	159	215

#### Table XIII

Candidate Angioedema Susceptibility Genes

Chromosome	Gene	Gene ID
14	Bradykinin B2 Receptor	BDKRB2
19	Tissue Kallikrein	KLK1
×	Aminopeptidase P (Membrane Bound)	XPNPEP2

**Table XIV** 

Association of SNPs of the present invention with Angioedema and/or Angioedema-like Events

		the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						Copies of		OR	OR	
		Sample or Subgroup Scores Test	cores Test			Estimate		Rare	Odds Ratio	Lower 95% Up	Upper 95%	
Gene ID SNP ID				DF	Probability	Type	A,a1	Allele	$(OR)^2$	CL	CL	p(a) ³
BDKRB2	BDKRB2 AE104s9	Caucasians	7.01	2	0.0300	Asymptotic	A,T	1	3.41	1.3238	8.7969	0.28
					0.0251	Exact			3.37	1.2261	10.2718	
KLK1	AE107s2	Blacks	7.50	2	0.0062	Asymptotic	C,T	-	5.64	1.4211	22.3807	0.09
					0.0062	Exact			5.64	1.2422	34.7611	
XPNPEP2	XPNPEP2 AE100s4	Caucasians	13.44	2	0.000	Exact	C,T	2	14.95	1.9838	+INF	0.28
		Angioedema-like	11.39	7	0.0022	Exact		7	10.82	1.3105	+INF	0.22
		Overall	10.72	7	0.0047	Asymptotic		2	11.11	1.2687	97.2709	0.23
	J	1.6 . 6	J		. / \ - 11 - 1 -							

Most frequent (common) allele, least frequent (rare) allele.

The ratio of the odds of an adverse event (angioedema and/or Angioedema-like) in subjects carrying the specified number of copies of the rare allele, relative to controls matched for nationality, race, gender and starting dose, over the odds of such an adverse event for similarly matched subjects not carrying any copies of the rare allele.

3 Rare allele relative frequency.